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Directory  
of  
Astronomical Data Files

*Best available copy*

September 1978

## PREFACE

This Directory of Astronomical Data Files has been prepared by the Data Task Force of the Interagency Coordination Committee for Astronomy (ICCA) in cooperation with the National Space Science Data Center (NSSDC). The purpose of the Directory is to provide a listing which will enable a user to locate stellar and extragalactic data sources keyed along with sufficient descriptive information to permit him to assess the value of the files for his use as well as the status and availability of the compilations.

An ad hoc committee of the Federal Council for Science and Technology, ICCA, was composed of representatives from each of the major Federal agencies funding astronomical research. Its charge to the Data Task Force was "to outline a sequence of steps that the Federal agencies might take to coordinate the archiving of astronomical data in order to maximize utility." Among the recommendations contained in its final report, the Task Force advocated that the Federal agencies "prepare a directory of astronomical data centers and other sources for both machine-readable and non-machine-readable data, including type of data, description of file, method of access, person-in-charge, and location for distribution to agencies and the astronomical researchers they support." The ICCA subsequently reappointed the Task Force with a revised charge to suggest appropriate steps to carry out its recommendations, including cost estimates and acceptability to the astronomical community. Rather than making additional recommendations to the ICCA, the Task Force decided to undertake the project itself in cooperation with the NSSDC. In an effort to make the survey more tractable, however, the group felt that the first directory should be limited primarily to observational stellar and extragalactic data. Solar system data, laboratory measurements, and model results may be covered in later directories, if support and interest warrant this.

Several indices have been prepared to facilitate use of the data files. Groupings are listed for the following categories:

1. Name of contributor
2. Title of data set
3. Name of object

The cutoff date for this edition of the Data Directory was 1 March 1978. The NSSDC plans to issue supplementary or replacement sheets to keep it updated.

The Data Task Force would like to express appreciation to Dr. Robert Fleischer, former Executive Secretary of ICCA, who initiated the creation of the Data Task Force on which he served during the planning stages of this project; to Dr. Theresa Nagy of Goddard Space Flight Center (Computer Sciences Corporation) and James Garland, formerly of NSSDC, for their help in designing the questionnaire and computer files; to Susan Ball of Computer Sciences Corporation for help in collating the material; and to Ralph Post and Ted Johnson of NSSDC (Sigma Data Corporation) for building the file and producing the Directory at the NSSDC.

### ICCA Data Task Force

Jaylee Mead, Chairman (Goddard Space Flight Center)  
Robert J. Davis, (Smithsonian Astrophysical Observatory)  
Alan D. Fiala (United States Naval Observatory)  
David L. Lide (National Bureau of Standards)  
James I. Vette (National Space Science Data Center)  
Charles E. Worley (United States Naval Observatory)

NAME OF CONTRIBUTOR

PARTICIPANT'S NAME	CURRENT INSTITUTION	COUNTRY	ID
THE DIRECTOR	UNIVERSITY OF ARIZONA	U.S.A.	009
ANDERSON, MRS. JEAN H.	ROSE HILL PLANETARIUM	U.S.A.	001
ARGUE, MR. ARNOLD NOEL	UNIVERSITY OF CAMBRIDGE	UNITED KINGDOM	069
AXON, DR. D. J.	UNIVERSITY OF SUSSEX	UNITED KINGDOM	002
BATESON, MR. FRANK M.	VARIABLE STAR SECTION, R.A.S.N.Z.	NEW ZEALAND	003
BAUMERT, DR. JOHN H.	CONNECTICUT COLLEGE	U.S.A.	004
BIDELMAN, DR. WILLIAM P.	WARNER AND SWASEY OBSERVATORY	U.S.A.	005
BUSCOMBE, PROF. WILLIAM	NORTHWESTERN UNIVERSITY	U.S.A.	006
CAHN, DR. JULIUS H.	UNIVERSITY OF ILLINOIS	U.S.A.	007
DAVIS, DR. ROBERT J.	SMITHSONIAN ASTROPHYSICAL OBSERVATORY	U.S.A.	008
DIXON, DR. ROBERT S.	OHIO STATE UNIVERSITY	U.S.A.	010
DOUGLASS, MR. GEOFFREY G.	U.S.N. OBSERVATORY	U.S.A.	179
DUKE, JR., MR. CARLTON W.	US NAVAL SURFACE WEAPONS CENTER	U.S.A.	012
DUNHAM, DR. DAVID W.		U.S.A.	011
ELVOVE, MR. S.	US NAVAL OBSERVATORY	U.S.A.	013
EPSTEIN, DR. E. E.	AEROSPACE CORPORATION	U.S.A.	014
GARRISON, DR. ROBERT F.	UNIVERSITY OF TORONTO	CANADA	015
GOTTLIEB, DR. DAVID M.	COMPUTER SCIENCES CORPORATION	U.S.A.	016
HARRINGTON, DR. ROBERT S.	US NAVAL OBSERVATORY	U.S.A.	018
HAUCK, DR. B.	UNIVERSITE DE LAUSANNE	SWITZERLAND	019
HECK, DR. ANDRE	INSTITUT D'ASTROPHYSIQUE	SPAIN	020
HEILES, DR. CARL	UNIVERSITY OF CALIFORNIA	U.S.A.	017
HERBST, DR. WILLIAM	CARNEGIE INSTITUTION OF WASHINGTON	U.S.A.	021
HOBBS, DR. ROBERT W.		U.S.A.	178
HONEYCUTT, DR. R. KENT	INDIANA UNIVERSITY	U.S.A.	022
HOUK, DR. NANCY	UNIVERSITY OF MICHIGAN	U.S.A.	173
HUCHRA, DR. J. P.	SMITHSONIAN ASTROPHYSICAL OBSERVATORY	U.S.A.	023
JOHNSON, DR. HAROLD L.	UNIVERSITY OF ARIZONA	U.S.A.	024
KALER, DR. JAMES B.	UNIVERSITY OF ILLINOIS	U.S.A.	177
KAYSER, DR. SUSAN E.	NASA GODDARD SPACE FLIGHT CENTER	U.S.A.	025
KONDO, DR. YOJI	NASA GODDARD SPACE FLIGHT CENTER	U.S.A.	026
MATTEI, MRS. JANET AKYUZ	AMER ASSOC VARIABLE STAR OBS	U.S.A.	176
MEISEL, DR. DAVID D.	STATE UNIVERSITY COLLEGE	U.S.A.	027
MERMILLIOD J. C.	LAUSANNE UNIVERSITY	SWITZERLAND	170
NAGY, DR. THERESA A.	NASA GODDARD SPACE FLIGHT CENTER	U.S.A.	050
NEUGEBAUER, MS. MARCIA	JET PROPULSION LABORATORY	U.S.A.	060
NISHIMURA, DR. SHIRO	TOKYO ASTRONOMICAL OBSERVATORY	JAPAN	028
PAGE, DR. THORNTON	NASA JOHNSON SPACE CENTER	U.S.A.	029
PARKER, DR. ROBERT A. R.	NASA JOHNSON SPACE CENTER	U.S.A.	030
PARSONS, DR. SIDNEY B.	UNIVERSITY OF TEXAS	U.S.A.	031
PETERSON, DR. BRUCE A.	ANGLO-AUSTRALIAN OBSERVATORY	AUSTRALIA	048
PHILLIPS, MR. ROY H.	NASA MARSHALL SPACE FLIGHT CENTER	U.S.A.	047
POPPER, DR. DANIEL M.	UNIVERSITY OF CALIFORNIA	U.S.A.	032
PRICE, MR. KENT M.		U.S.A.	033
ROOSEN, DR. ROBERT G.	SANDIA LABORATORIES	U.S.A.	034
ROTHSCHILD, DR. RICHARD E.	NASA GODDARD SPACE FLIGHT CENTER	U.S.A.	035
SIOW, DR. EDWARD M.	VILLANOVA UNIVERSITY	U.S.A.	049
SMITH, DR. HARDING E.	UNIVERSITY OF CALIFORNIA	U.S.A.	175
SNOW, JR., DR. THEODORE P.	UNIVERSITY OF COLORADO	U.S.A.	036
SWINGS, DR. J. P.	INSTITUT D'ASTROPHYSIQUE	BELGIUM	174
TERZIAN, DR. YERVANT	CORNELL UNIVERSITY	U.S.A.	037
TRIMBLE, DR. VIRGINIA L.	UNIVERSITY OF MARYLAND	U.S.A.	038
UPGREN, DR. ARTHUR R.	WESLEYAN UNIVERSITY	U.S.A.	039
VEEDER, DR. GLENN J.	JET PROPULSION LABORATORY	U.S.A.	040
WALKER, MR. R. L.	US NAVAL OBSERVATORY	U.S.A.	041
WARREN, JR., DR. WAYNE H.	NASA GODDARD SPACE FLIGHT CENTER	U.S.A.	042
WENKER, DR. HEINRICH J.	HAMBURGER STERNWART	FED. REP. OF GERMANY	043
WHITE, DR. RAYMOND E.	UNIVERSITY OF ARIZONA	U.S.A.	044
WOOD, PROF. FRANK BRADSHAW	UNIVERSITY OF FLORIDA	U.S.A.	045
WORLEY, MR. CHARLES E.	US NAVAL OBSERVATORY	U.S.A.	046

TITLE OF DATA SET

DATA SET NAME	DISTRIBUTOR(S)	MACHINE READABLE	DATA FILE
21-CM LINE SURVEY, NORTHERN SKY	HEILES, DR. CARL HABING, DR. HARM	YES	017A
90 GHZ QUASAR MONITORING	WHITE, JULIA D.	YES	014A
90-GHZ VARIABLE RADIO SOURCE MONITORING	HOBBS, R.W.	YES	178A
A BIBLIOGRAPHICAL CATALOGUE OF FIELD RR LYRAE STAR	DE DONNEES STELLAIRES, CENTRE	YES	020B
ALBANY GENERAL CATALOGUE	ELVOVE, MR. S.	YES	013A
AMES CATALOGUE OF GALAXIES	DIXON, DR. ROBERT S.	YES	010E
AN ATLAS OF STELLAR SPECTRA, I	JOHNSON, DR. HAROLD L. ARIZONA U, COMPUTER CTR	YES	024B
ASTROGRAPHIC CATALOGUE	DUNHAM, DR. DAVID W. VAN FLANDERN, DR. THOMAS C. JASCHEK, DR. C. H. WARREN JR., DR. WAYNE	YES	011B
ASTRONOMICAL DATA FILE	BIDELMAN, DR. WILLIAM P.	YES	005B
ASTROPHYSICAL CROSS-REFERENCE LIST OF DOUBLE STARS	MEISEL, DR. DAVID D. FRANZ, OTTO	NO	027A
B-V PHOTOMETRY FOR NGC 6822	KAYSER, DR. SUSAN	NO	025A
B.T. LYNDS' CATALOGUE OF BRIGHT NEBULAE	NAGY, DR. THERESA A.	YES	050P
B.T. LYNDS' CATALOGUE OF DARK NEBULAE	NAGY, DR. THERESA A.	YES	050S
BAKER'S FIRST GALAXY CATALOGUE	DIXON, DR. ROBERT S.	YES	010D
BAKER'S SECOND GALAXY CATALOGUE	DIXON, DR. ROBERT S.	YES	010B
BALLOON ULTRAVIOLET STELLAR SPECTROSCOPY JSC/SRL	KONDO, DR. YOJI	YES	026A
BESSELIAN DAY NUMBERS FOR THE PALOMAR PRINTS	DIXON, DR. ROBERT S.	YES	010A
BIBLIOGRAPHIC STAR INDEX	NAGY, DR. THERESA A. MEAD, DR. JAYLEE	YES	050K
BOSS GENERAL CATALOGUE (GC)	NAGY, DR. THERESA A. MEAD, DR. JAYLEE	YES	050L
BOYARCHUK-KOPYLOV ROTATIONAL-VELOCITY CATALOGUE	NAGY, DR. THERESA A.	YES	050T
BREGER SPECTROPHOTOMETRIC SCANNER CATALOG	NAGY, DR. THERESA A. MEAD, DR. JAYLEE	YES	050D
BRORFELDE CATALOGUE (QSO FIELDS) 1975-1976	ARGUE, MR. ARNOLD NOEL FOGH OLSEN, H. J. HELMER, L.	YES	069C
CARD CATALOGUE OF ECLIPSING BINARIES	WOOD, PROF. FRANK B. CHEN, KWAN-YU FLORKOWSKI, DAVID	NO	045A
CAT HD,HDE AND DM IDS FOR STARS IN OPEN CLUSTERS	JASCHEK, DR. C.	YES	170A
CAT. OF SPECTROSCOPICALLY IDENTIFIED WHITE DWARFS	SION, DR. EDWARD M. MCCOOK, DR. GEORGE P.	YES	049A
CATALOG OF CLUSTERS AND ASSOCIATIONS	BESHORE, EDWARD C.	YES	044A
CATALOGUE OF AC/HDE ZODIACAL STARS - HYADES REGION	WARREN JR., DR. W. H.	YES	042D
CATALOGUE OF BRIGHT STARS (REVISED VERSION)	NISHIMURA, DR. SHIRO	YES	028A
CATALOGUE OF DIFFUSE INTERSTELLAR BAND STRENGTHS	YORK, DR. D. G.	YES	036B
CATALOGUE OF H-GAMMA MEASURES	NAGY, DR. THERESA A. MEAD, DR. JAYLEE	YES	050B
CATALOGUE OF RADIO STARS	WENDKER, DR. HEINRICH J.	YES	043A
CATALOGUE OF STARS OBSERVED BY EXPT. S-019	PARSONS, DR. SIDNEY B.	YES	031A
CATALOGUE OF STELLAR IDENTIFICATIONS (CSI)	NAGY, DR. THERESA A. MEAD, DR. JAYLEE	YES	050J
CATALOGUE OF UVBY-BETA PHOTOMETRY	WARREN, JR., DR. WAYNE H.	NO	042B
CELESCOPE CATALOGUE OF ULTRAVIOLET STELLER OBSERV.	DAVIS, DR. ROBERT J. VALENTE, MR. WILLIAM	YES	008C
CHARTS FOR SOUTHERN VARIABLE STARS	BATESON, MR. FRANK M.	NO	003A
COMPACT GALACTIC H-II REGIONS AT 10.7 GHZ	PRICE, MR. KENT M.	YES	033A
COMPONENT MASSES AND SEPARATIONS OF SPECT. BIN	TRIMBLE, DR. VIRGINIA L.	NO	038A
CONTOUR PLOTS OF DENSITIES OF FAR-UV PHOTOS	VALENTE, MR. WILLIAM HILL, R. PAGE, DR. THORNTON CARRUTHERS, DR. G. R.	YES	029B
COPERNICUS U2 SPECTRA OF 60 O-B STARS	JENKINS, E. B.	YES	036A
EMISSION LINE SURVEY OF THE GALACTIC PLANE	PARKER, DR. ROBERT A. R. R. GULL, DR. T. KIRSHNER, ROBERT	NO	030A
EMISSION-LINE CAT. PLANETARY AND DIFFUSE NEBULAE	KALER, J.B.	YES	177A



DATA SET NAME	DISTRIBUTOR(S)	MACHINE READABLE	DATA FILE
SPECTRA OF B(E) STARS WITH IR EXCESSES	SWINGS, DR. J.P.	NO	174A
SPECTRA OF MIRA VARIABLES	GARRISON, DR. ROBERT F.	NO	015A
SPECTRAL CLASSIFICATIONS ON M K SYSTEM	GARRISON, DR. ROBERT F.	NO	015B
SPECTRUM SCANS	ARIZONA U. COMPUTER CTR	YES	048A
STAR IMAGES, COORDINATES, FAR-UV MAGNITUDES	VALENTE, MR. WILLIAM HILL, R. PAGE, DR. THORNTON	YES	029A
STARS HAVING VERY LARGE PROPER MOTIONS	ANDERSON, MRS. JEAN H.	NO	001A
STARS ILLUMINATING REFLECTION NEBULAE	HERBST, DR. WILLIAM VAN DEN BERGH, DR. S.	NO	021A
STELLAR (FE/H) RATIOS	BESHORE, EDWARD	YES	044B
STEPHENSON'S CATALOGUE OF COOL CARBON STARS	OCHSENBEIN, DR. FRANCOIS BAUMERT, DR. JOHN H.	YES	004A
STEPHENSON'S CATALOG OF COOL CARBON STARS	HONEYCUTT, DR. R. KENT	YES	022A
STROMGREN-PERRY PHOTOELECTRIC UVBY PHOTOMETRY	NAGY, DR. THERESA A. MEAD, DR. JAYLEE	YES	050E
SUPERGIANTS IN THE MILKY WAY	BUSCOMBE, PROF. WILLIAM	NO	006A
TEN-MICRON CATALOG	NAGY, DR. THERESA A. MEAD, DR. JAYLEE	YES	050H
THIRTEEN COLOR PHOTOMETRY OF 1380 BRIGHT STARS	JOHNSON, DR. HAROLD L. ARIZONA U. COMPUTER CTR	YES	024A
TONANTZINTLA NORTHERN HEMISPHERE BLUE STARS:PART 2	DIXON, DR. ROBERT S.	YES	010K
TONANTZINTLA SOUTHERN HEMISPHERE BLUE STARS	DIXON, DR. ROBERT S.	YES	010L
TWO MICRON ORIGINAL SKY SURVEY	VALENTE, MR. WILLIAM	YES	060A
TWO-MICRON SKY SURVEY	NAGY, DR. THERESA A. MEAD, DR. JAYLEE	YES	050G
UBV OBSERVATIONS IN THE ORION-NEBULA REGION	WARREN, JR., DR. WAYNE H.	YES	042A
UBV OBSERVATIONS OF ECLIPSING BINARIES	POPPER, DR. DANIEL M.	YES	032A
UBV, H-BETA OBSERVATIONS OF TELESCOPE STARS	DAVIS, DR. ROBERT J.	YES	008A
UCSD QSO CATALOG	SMITH, DR. HARDING E.	YES	175A
UVBY-BETA OBSERVATIONS OF STARS IN ORION OB 1	WARREN, JR., DR. WAYNE H.	YES	042C
VARIABLE STAR OBSERVATIONS	MATTEI, MRS. JANET AKYUS	YES	176A
VISUAL BINARIES WITH VARIABLE COMPONENTS	WALKER, MR. R. L.	YES	041A
VORONTSOV - VELAMINOV INTERACTING GALAXIES	DIXON, DR. ROBERT S.	YES	0100
VORONTSOV-VELAMINOV GALAXY CATALOGUE (MCG)	DIXON, DR. ROBERT S.	YES	010H
VYSSOTSKY CATALOGUES (1950.0)	UPGREN, DR. ARTHUR R.	YES	039A
X-RAY CATALOGUE	ROTHSCHILD, DR. RICHARD E.	YES	035A
YALE BRIGHT STAR CATALOG	NAGY, DR. THERESA A. MEAD, DR. JAYLEE	YES	050F
YALE BRIGHT STAR CATALOGUE	ELVOVE, MR. S.	YES	013B
YALE-AGK2 OVERLAY CATALOGUE	ARGUE, MR. ARNOLD NOEL EKERS, R.	YES	069D
ZODIACAL DOUBLE STARS	DUNHAM, DR. DAVID W. VAN FLANDERN, DR. THOMAS C.	YES	011A
ZWICKY CATALOGUE OF GALAXIES	ARGUE, MR. ARNOLD NOEL	YES	069A

NAME OF OBJECT



OBJECT CLASS	RIGHT ASCENSION DECLINATION		GALACTIC		PARTICIPANT'S NAME	DATA FILE
			LATITUDE	LONGITUDE		
A STARS	0 TO 24	-90 TO +90			JOHNSON, DR. HAROLD L.	024B
	0 TO 24	-20 TO +60			ARGUE, MR. ARNOLD NOEL	069B
	3 TO 24	-80 TO +50			MEISEL, DR. DAVID D.	027D
	3 TO 24	-80 TO +50			THE DIRECTOR, COMPUTER CTR	009A
	3 TO 24	-80 TO +50			PAGE, DR. THORNTON	029A
	3 TO 24	-80 TO +50			PAGE, DR. THORNTON	029B
ALGOL SYSTEMS	0 TO 24	-90 TO +90			MEISEL, DR. DAVID D.	027A
	0 TO 24	-90 TO +90			MEISEL, DR. DAVID D.	027D
	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360	WOOD, PROF. FRANK BRADSHAW	045A
	0 TO 24	-90 TO 0			BATESON, MR. FRANK M.	003A
	0 TO 24	-30 TO +30			DUNHAM, DR. DAVID W.	011A
AM STARS	0 TO 24	-90 TO +90			MEISEL, DR. DAVID D.	027A
	0 TO 24	-90 TO +90			MEISEL, DR. DAVID D.	027D
AP STARS	0 TO 24	-90 TO +90			MEISEL, DR. DAVID D.	027A
	0 TO 24	-90 TO +90			MEISEL, DR. DAVID D.	027D
ASSOCIATIONS	0 TO 24	-90 TO +90			BUSCOMBE, PROF. WILLIAM	006C
	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360	MEISEL, DR. DAVID D.	027A
	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360	DIXON, DR. ROBERT S.	010I
	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360	WHITE, DR. RAYMOND E.	044A
BETA CEPHEI STARS	0 TO 24	-90 TO +90			MEISEL, DR. DAVID D.	027B
	0 TO 24	-90 TO +90			MEISEL, DR. DAVID D.	027A
	0 TO 24	-90 TO +90			MEISEL, DR. DAVID D.	027D
BETA CMA STARS	0 TO 24	-90 TO +90			MEISEL, DR. DAVID D.	027A
	0 TO 24	-90 TO +90			MEISEL, DR. DAVID D.	027D
BETA LYRAE STARS	0 TO 24	-90 TO +90			MEISEL, DR. DAVID D.	027A
	0 TO 24	-90 TO +90			MEISEL, DR. DAVID D.	027D
	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360	WOOD, PROF. FRANK BRADSHAW	045A
B STARS	0 TO 24	-90 TO +90			JOHNSON, DR. HAROLD L.	024B
	3 TO 24	-80 TO +50			MEISEL, DR. DAVID D.	027B
	3 TO 24	-80 TO +50			ARGUE, MR. ARNOLD NOEL	069B
	3 TO 24	-80 TO +50			MEISEL, DR. DAVID D.	027D
	3 TO 24	-80 TO +50			PAGE, DR. THORNTON	029A
	3 TO 24	-80 TO +50			PAGE, DR. THORNTON	029B
PUB. DIFFUSE BAND DATA	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360	SNOW, JR., DR. THEODORE P.	036B
BE STARS	0 TO 24	-90 TO +90			JOHNSON, DR. HAROLD L.	024B
	0 TO 24	-90 TO +90			MEISEL, DR. DAVID D.	027A
	0 TO 24	-70 TO +70			MEISEL, DR. DAVID D.	027D
	0 TO 24	-70 TO +70			SWINGS, DR. J.P.	174A
BINARIES	0 TO 24	-90 TO +90			MEISEL, DR. DAVID D.	027A
	0 TO 24	-90 TO +90			MEISEL, DR. DAVID D.	027D
	0 TO 24	-30 TO +30			DUNHAM, DR. DAVID W.	011A
BLUE OBJECTS	0 TO 5	-21 TO -34			DIXON, DR. ROBERT S.	010L
	0 TO 13	20 TO 33			DIXON, DR. ROBERT S.	010K
	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360	DIXON, DR. ROBERT S.	010I
	3 TO 24	-80 TO +50			PAGE, DR. THORNTON	029A
	3 TO 24	-80 TO +50			PAGE, DR. THORNTON	029B
BP STARS	0 TO 24	-90 TO +90			MEISEL, DR. DAVID D.	027A
	0 TO 24	-90 TO +90			MEISEL, DR. DAVID D.	027D
	0 TO 24	-70 TO +70			SWINGS, DR. J.P.	174A
CARBON STARS	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360	JOHNSON, DR. HAROLD L.	024B
	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360	BAUMERT, DR. JOHN H.	004A
	0 TO 24	-20 TO +60			HONEYCUTT, DR. R. KENT	022A
	0 TO 24	-20 TO +60			THE DIRECTOR, COMPUTER CTR	009A
CEPHEIDS	0 TO 24	-90 TO +90			BUSCOMBE, PROF. WILLIAM	006A
	0 TO 24	-90 TO +90			MEISEL, DR. DAVID D.	027A
	0 TO 24	-90 TO 0			MATTEI, MRS. JANET AKYUZ	176A
	0 TO 24	-90 TO 0			BATESON, MR. FRANK M.	003A
CLOSE BINARIES	0 TO 24	-90 TO +90			MEISEL, DR. DAVID D.	027A
	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360	WOOD, PROF. FRANK BRADSHAW	045A
	0 TO 24	-30 TO +30			DUNHAM, DR. DAVID W.	011A
CLUSTERS OF GALAXIES	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360	DIXON, DR. ROBERT S.	010I
	3 TO 24	-80 TO +50			PAGE, DR. THORNTON	029B
CONTACT BINARIES	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360	WOOD, PROF. FRANK BRADSHAW	045A
	0 TO 24	-30 TO +30			DUNHAM, DR. DAVID W.	011A
DELTA SCUTI STARS	0 TO 24	-90 TO +90			MEISEL, DR. DAVID D.	027A
DARK NEBULAE	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360	DIXON, DR. ROBERT S.	010I
EARLY-TYPE STARS	0 TO 24	-90 TO +90			MEISEL, DR. DAVID D.	027B
	0 TO 24	-90 TO +90			MEISEL, DR. DAVID D.	027A
	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360	MEISEL, DR. DAVID D.	027D
	0 TO 24	-70 TO +70			SNOW, JR., DR. THEODORE P.	036A
	3 TO 24	-80 TO +50			SWINGS, DR. J.P.	174A
	3 TO 24	-80 TO +50			PAGE, DR. THORNTON	029A
	3 TO 24	-80 TO +50			PAGE, DR. THORNTON	029B
ECLIPSING VARIABLES	0 TO 24	-90 TO +90			POPPER, DR. DANIEL M.	032A
	0 TO 24	-90 TO +90			MEISEL, DR. DAVID D.	027A
	0 TO 24	-90 TO +90			MEISEL, DR. DAVID D.	027D
	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360	MATTEI, MRS. JANET AKYUZ	176A
	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360	WOOD, PROF. FRANK BRADSHAW	045A
	0 TO 24	-90 TO 0			BATESON, MR. FRANK M.	003A
	0 TO 24	-30 TO +30			DUNHAM, DR. DAVID W.	011A
EMISSION NEBULAE	0 TO 24	-90 TO +90	-9 TO +9	0 TO 359	PARKER, DR. ROBERT A. R.	030A
	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360	DIXON, DR. ROBERT S.	010I

OBJECT CLASS	RIGHT ASCENSION		DECLINATION	GALACTIC		PARTICIPANT'S NAME	DATA FILE
	0 TO 24	-90 TO 0		LATITUDE	LONGITUDE		
	0 TO 24	-90 TO 0				BATESON, MR. FRANK M.	003A
MULTIPLE GALAXIES	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360		DIXON, DR. ROBERT S.	010I
MULTIPLE STARS	0 TO 24	-90 TO +90	-30 TO +30			MEISEL, DR. DAVID D.	027A
	0 TO 24	-30 TO +30				DUNHAM, DR. DAVID W.	011A
NEARBY STARS	0 TO 24	-30 TO +90				VEEDER, DR. GLENN J.	040A
NOVAE	0 TO 24	-90 TO +90				MATTEI, MRS. JANET AKYUZ	176A
	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360		WOOD, PROF. FRANK BRADSHAW	045A
	0 TO 24	-90 TO -20				BATESON, MR. FRANK M.	003B
	0 TO 24	-90 TO 0				BATESON, MR. FRANK M.	003A
0 STARS						JOHNSON, DR. HAROLD L.	024B
	0 TO 24	-90 TO +90				ARGUE, MR. ARNOLD NOEL	069B
	0 TO 24	-90 TO +90				MEISEL, DR. DAVID D.	027A
	3 TO 24	-80 TO +50				MEISEL, DR. DAVID D.	027D
	3 TO 24	-80 TO +50				PAGE, DR. THORNTON	029A
	3 TO 24	-80 TO +50				PAGE, DR. THORNTON	029B
OB STARS	0 TO 24	-90 TO +90				MEISEL, DR. DAVID D.	027A
	0 TO 24	-90 TO +90				MEISEL, DR. DAVID D.	027D
	3 TO 24	-80 TO +50				PAGE, DR. THORNTON	029A
	3 TO 24	-80 TO +50				PAGE, DR. THORNTON	029B
OF STARS	0 TO 24	-90 TO +90				MEISEL, DR. DAVID D.	027A
	0 TO 24	-90 TO +90				MEISEL, DR. DAVID D.	027D
OH SOURCES	8 TO 16	-42 TO +70	-10 TO +10	11 TO 250		PRICE, MR. KENT M.	033A
OPEN CLUSTERS						BUSCOMBE, PROF. WILLIAM	006C
	0 TO 24	-90 TO +90				MEISEL, DR. DAVID D.	027A
	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360		DIXON, DR. ROBERT S.	010I
	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360		WHITE, DR. RAYMOND E.	044A
PLANETARY NEBULAE	0 TO 24	-90 TO +90				DIXON, DR. ROBERT S.	010M
	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360		DIXON, DR. ROBERT S.	010I
	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360		KALER, DR. JAMES B.	177A
	3 TO 24	-70 TO +70				SWINGS, DR. J.P.	174A
	3 TO 24	-80 TO +50				PAGE, DR. THORNTON	029A
POPULATION I STARS	0 TO 24	-30 TO +90				VEEDER, DR. GLENN J.	040A
POPULATION II STARS	0 TO 24	-30 TO +90				VEEDER, DR. GLENN J.	040A
PULSARS	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360		DIXON, DR. ROBERT S.	010G
	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360		TERZIAN, DR. YERVANT	037A
	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360		NAGY, DR. THERESA A.	050I
QUASARS	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360		DIXON, DR. ROBERT S.	010I
	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360		SMITH, DR. HARDING E.	175A
	0 TO 24	-25 TO +70				EPSTEIN, DR. E. E.	014A
R CRB VARIABLES	0 TO 24	-90 TO +90				MATTEI, MRS. JANET AKYUZ	176A
	0 TO 24	-90 TO -20				BATESON, MR. FRANK M.	003B
	0 TO 24	-90 TO 0				BATESON, MR. FRANK M.	003A
RADIO SOURCES	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360		WENDKER, DR. HEINRICH J.	043A
	0 TO 24	-90 TO +90				DIXON, DR. ROBERT S.	010G
	0 TO 24	-36 TO +63				DIXON, DR. ROBERT S.	010F
	0 TO 24	-30 TO +70				HOBBS, DR. ROBERT W.	178A
RED GIANTS	0 TO 24	-90 TO +90				GARRISON, DR. ROBERT F.	015A
REFLECTION NEBULAE			-9 TO +9	0 TO 359		PARKER, DR. ROBERT A. R.	030A
	0 TO 23	-70 TO +90	-75 TO +90	0 TO 359		HERBST, DR. WILLIAM	021A
	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360		DIXON, DR. ROBERT S.	010I
	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360		NAGY, DR. THERESA A.	050P
ROTATING STARS	0 TO 24	-90 TO +90				MEISEL, DR. DAVID D.	027A
	0 TO 24	-90 TO +90				MEISEL, DR. DAVID D.	027D
RR LYRAE STARS	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360		HECK, DR. ANDRE	020B
RV TAURI STARS	0 TO 24	-90 TO +90				MATTEI, MRS. JANET AKYUZ	176A
	0 TO 24	-90 TO -20				BATESON, MR. FRANK M.	003B
	0 TO 24	-90 TO 0				BATESON, MR. FRANK M.	003A
RW AURIGAE STARS	0 TO 24	-90 TO +90				MATTEI, MRS. JANET AKYUZ	176A
	0 TO 24	-90 TO -20				BATESON, MR. FRANK M.	003B
	0 TO 24	-90 TO 0				BATESON, MR. FRANK M.	003A
S STARS						JOHNSON, DR. HAROLD L.	024B
	0 TO 24	-90 TO +90				GARRISON, DR. ROBERT F.	015A
SEYFERT GALAXIES	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360		DIXON, DR. ROBERT S.	010I
	0 TO 24	-25 TO +70				EPSTEIN, DR. E. E.	014A
SHELL STARS	0 TO 24	-90 TO +90				MEISEL, DR. DAVID D.	027A
	0 TO 24	-90 TO +90				MEISEL, DR. DAVID D.	027D
	0 TO 24	-70 TO +70				SWINGS, DR. J.P.	174A
SPECTROSCOPIC BINARIES	0 TO 24	-90 TO +90				MEISEL, DR. DAVID D.	027A
	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360		MEISEL, DR. DAVID D.	027D
	0 TO 24	-90 TO +90				TRIMBLE, DR. VIRGINIA L.	038A
	0 TO 24	-30 TO +30				DUNHAM, DR. DAVID W.	011A
SPECTRUM VARIABLES	0 TO 24	-90 TO +90				MEISEL, DR. DAVID D.	027D
SUPERNOVA REMNANTS	0 TO 24	-90 TO +90	-9 TO +9	0 TO 359		PARKER, DR. ROBERT A. R.	030A
	3 TO 24	-80 TO +50	-90 TO +90	0 TO 360		DIXON, DR. ROBERT S.	010I
						PAGE, DR. THORNTON	029B
STELLAR RINGS	0 TO 24	-90 TO +90	-90 TO +90	0 TO 360		DIXON, DR. ROBERT S.	010I

## DIRECTORY

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\* 001 \*  
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MRS. JEAN H. ANDERSON  
ROSE HILL PLANETARIUM  
2400 IONE STREET  
LAUDERDALE, MN  
55113

TELEPHONE: (612) 645-6120

\*\*\*\*\*  
\* DATA FILE 001A \*  
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\*\*\*\*\* STARS HAVING VERY LARGE PROPER MOTIONS \*\*\*\*\*

N/A ENTRIES  
600 OBJECTS

N/A% COMPLETE  
N/A% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
DATES OF OBSERVATION:

# OBJECT CLASSES

# DATA CATEGORIES

ASTROMETRY  
OPTICAL ASTRONOMY  
PARALLAXES  
PHOTOMETRY  
POSITIONAL ASTRONOMY  
PROPER MOTIONS  
RADIAL VELOCITIES  
SPACE MOTIONS

# DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)	AVERAGED	100	EPOCH 1950
GALACTIC COORDINATES			100	SYSTEM II
PROPER MOTION (TOTAL)	TRANSCR (REMARKS)	AVERAGED	100	ERROR NOT SPECIFIED
PARALLAX, TRIGONOMETRIC	TRANSCR (REMARKS)	AVERAGED	60	
OTHER (SEE COMMENTS)	TRANSCR (REMARKS)	AVERAGED	50	
IDENTIFICATION				
RUNNING NO. IN SOURCE CATALOGUE			100	UNPUBLISHED
HD CATALOGUE NUMBER				
DM CATALOGUE NUMBER				BD COD CPD
OTHER IDENTIFICATION NUMBERS				BSC, ADS
CHARTS AVAILABLE			70	
RADIATION				
MAGNITUDES, PHOTOGRAPHIC			100	WHEN AVAILABLE; NEEDS UPDATING
MAGNITUDES, PHOTOELECTRIC			40	WHEN AVAILABLE; NEEDS UPDATING
SPECTRAL CLASS				WHEN AVAILABLE; NEEDS UPDATING
LUMINOSITY CLASS				WHEN AVAILABLE; NEEDS UPDATING
COLORS				WHEN AVAILABLE; NEEDS UPDATING
VARIABLE STARS				
TYPE OF VARIABILITY				SOME
MAXIMUM AND MINIMUM MAGNITUDES				SOME
PERIOD OF VARIABILITY				SOME
MULTIPLE SYSTEMS				
TYPE OF MULTIPLICITY				SOME
MULTIPLICITY OF SYSTEM				SOME
MAX/MIN MAGNITUDES OF SYSTEM				SOME
EPHEMERIS				SOME
ORBITAL PARAMETERS				SOME
SEPARATION (VISUAL BINARIES)				SOME
OTHER				
SPACE VELOCITY				WHEN AVAILABLE; NEEDS UPDATING
ROTATIONAL VELOCITY				WHEN AVAILABLE; NEEDS UPDATING
RADIAL VELOCITY				WHEN AVAILABLE; NEEDS UPDATING
REDSHIFT				WHEN AVAILABLE; NEEDS UPDATING

# RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
DECLINATION: -90 TO +90 DEGREES  
SPECTRAL TYPES:  
OTHER: SEE REMARKS

GALACTIC LATITUDE: -90 TO +90 DEGREES  
GALACTIC LONGITUDE: 0 TO 360 DEGREES  
MAGNITUDES: -1.6 TO 19.0 (VISUAL OR PHOTOGRAPHIC)  
DISTANCE:

FORM(S) OF COMPILATION: CARD CATALOGUE  
CAN BE XEROXED

# KEY REFERENCE(S)

UNPUBLISHED COMPILATION OF DATA FOR STARS HAVING PROPER MOTIONS GREATER THAN 0.95 ARCSEC ANNUALLY,  
UPDATED FROM ORIGINAL LIST EXTRACTED FROM: LUYTEN, W.J. - A CATALOGUE OF STARS HAVING PROPER MOTIONS  
GREATER THAN 0.2 ARCSEC.

DESCRIPTION OF MACHINE-READABLE DATA FORMS.  
NONE GIVEN

# REMARKS

THIS IS A COMPILATION OF ALL PUBLISHED DATA FOR THOSE STARS HAVING PROPER MOTIONS GREATER THAN 0.95  
ARCSEC PER YEAR. THE CATALOGUE IS INCOMPLETE AS TO PHOTOELECTRIC MAGNITUDES, PARALLAXES, ETC...

# DISTRIBUTORS OF THE DATA SET

NAME  
MRS. JEAN H. ANDERSON

ADDRESS  
ROSE HILL PLANETARIUM  
2400 IONE STREET  
LAUDERDALE, MN

CONDITIONS AND COMMENTS  
CARD CATALOGUE

\*\*\*\*\*  
\* 002 \*  
\*\*\*\*\*

DR. D. J. AXON  
ASTRONOMY CENTRE  
SUSSEX UNIVERSITY  
FALMER, BRIGHTON  
BN1 9QH  
UNITED KINGDOM

TELEPHONE:

\*\*\*\*\*

\* DATA FILE 002A \*\*\*\*\* LINEAR POLARIZATION MEASUREMENTS FOR 5070 STARS \*\*\*\*\*

\*\*\*\*\*

5070 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: GALACTIC LATITUDE  
5070 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION: 1951 TO 1976

OBJECT CLASSES

DATA CATEGORIES

POLARIMETRY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA GALACTIC COORDINATES	TRANSCR		100	SYSTEM II
IDENTIFICATION HD CATALOGUE NUMBER	TRANSCR		70	
DM CATALOGUE NUMBER	TRANSCR		30	
REMARKS	TRANSCR			ORIGINAL OBSERVER QUOTED.
RADIATION SPECTRAL CLASS	TRANSCR	REDUCED		MK
POLARIZATION	TRANSCR (REMARKS)	REDUCED		STOKES PARAMETERS IN MAGS.
DERIVED QUANTITIES DISTANCE MODULUS	TRANSCR	REDUCED		

RANGE OF COVERAGE

RIGHT ASCENSION:	GALACTIC LATITUDE:	-90 TO +90 DEGREES
DECLINATION:	GALACTIC LONGITUDE:	0 TO 360 DEGREES
SPECTRAL TYPES:	MAGNITUDES:	
OTHER:	DISTANCE:	0 TO 8 KPC

FORM(S) OF COMPILATION: DIGITAL MAGNETIC TAPE  
PUNCHED COMPUTER CARDS

KEY REFERENCE(S)

AXON, D. J. AND ELLIS, R. S. - M.N.R.A.S. 177, 499, 1976.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

THIS CATALOGUE IS AVAILABLE ON IBM 9-TRACK MAGNETIC TAPE WRITTEN AT 800 OR 1600 BPI, AND ON A CDC/ICL 7 OR 9-TRACK MAGNETIC TAPE WRITTEN AT 800 BPI.

REMARKS

THIS CATALOGUE CONTAINS A COMPLETE LIST OF STARS FOR WHICH POLARIZATIONS HAVE CURRENTLY BEEN MEASURED. ACCURATE DISTANCE ESTIMATES HAVE BEEN APPENDED USING TRIGNOMETRIC OR SPECTRAL PARALLAX DATA. LISTING IN STOKES PARAMETERS IN GALACTIC COORDINATE SYSTEM AND MAGNITUDES. POLARIZATIONS ARE TAKEN FROM VARIOUS SOURCES.

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. D. J. AXON	ASTRONOMY CENTRE UNIVERSITY OF SUSSEX FALMER, BRIGHTON BN1 9QH UNITED KINGDOM	BLANK 7-TRACK TAPE REQUIRED FOR CDC/ICL DEFAULT COPY.
R. S. ELLIS	DEPARTMENT OF PHYSICS UNIVERSITY OF DURHAM SCIENCE LABORATORIES, SOUTH ROAD DURHAM CITY UNITED KINGDOM	BLANK 9-TRACK TAPE FOR IBM DEFAULT COPY.

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 \* 003 \*  
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MR. FRANK M. BATESON TELEPHONE:  
 VARIABLE STAR SECTION, R.A.S.N.Z.  
 18 POOLERS ROAD  
 GREERTON  
 TAURANGA  
 NEW ZEALAND

\*\*\*\*\*

\* DATA FILE 003A \*\*\*\*\* CHARTS FOR SOUTHERN VARIABLE STARS \*\*\*\*\*

\*\*\*\*\*  
 350 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: SERIES 1-8  
 560 OBJECTS N/A% MACHINE-READABLE DATES OF OBSERVATION:

OBJECT CLASSES

ALGOL SYSTEMS  
 CEPHEIDS  
 ECLIPSING VARIABLES  
 FLARE STARS  
 MIRA VARIABLES  
 NOVAE  
 R CRB VARIABLES  
 RV TAURI STARS  
 RW AURIGAE STARS  
 SUPERNOVAE  
 T TAURI STARS  
 U GEMINORUM STARS  
 VARIABLES

DATA CATEGORIES

PHOTOMETRY  
 POSITIONAL ASTRONOMY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA RIGHT ASCENSION, DECLINATION				EPOCH 1900 AND 1950
IDENTIFICATION OTHER IDENTIFICATION NUMBERS CHARTS AVAILABLE				STANDARD DESIGNATIONS FOR VARIABLES
RADIATION PHOTOMETRIC SYSTEM(S) MAGNITUDES, VISUAL MAGNITUDES, PHOTOELECTRIC				UBV ONLY WHEN V MAGS. NOT AVAILABLE V SHOWN ON CHARTS
VARIABLE STARS TYPE OF VARIABILITY MAXIMUM AND MINIMUM MAGNITUDES PERIOD OF VARIABILITY				

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO 0 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES:  
 DISTANCE:

TO 15.0 (VISUAL OR PHOTOGRAPHIC)

FORM(S) OF COMPILATION: 8 FOLDERS

KEY REFERENCE(S)

CHARTS FOR SOUTHERN VARIABLE STARS

DESCRIPTION OF MACHINE-READABLE DATA FORMS

NONE GIVEN

REMARKS

CHARTS SHOW LOCATION ON ALL VARIABLES BRIGHTER THAN MAGNITUDE 13 IN EACH FIELD AND IDENTIFICATION OF COMPARISON STARS.

DISTRIBUTORS OF THE DATA SET

NAME  
 MR. FRANK M. BATESON

ADDRESS  
 VARIABLE STAR SECTION, R.A.S.N.Z.  
 18 POOLERS ROAD  
 GREERTON  
 TAURANGA  
 NEW ZEALAND

CONDITIONS AND COMMENTS  
 USER PAYS--A CONDITION OF GRANT.

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 \* 003 \*  
 \*\*\*\*\*

MR. FRANK M. BATESON TELEPHONE:  
 VARIABLE STAR SECTION, R.A.S.N.Z.  
 18 POOLLES ROAD  
 GREERTON  
 TAURANGA  
 NEW ZEALAND

\*\*\*\*\*

\* DATA FILE 003B \*\*\*\*\* SOUTHERN VARIABLE STARS \*\*\*\*\*

\*\*\*\*\*

75000 ENTRIES  
 500 OBJECTS

90% COMPLETE  
 1% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1900)  
 DATES OF OBSERVATION: 1927 TO 1976

OBJECT CLASSES

FLARE STARS  
 MIRA VARIABLES  
 NOVAE  
 R CRB VARIABLES  
 RV TAURI STARS  
 RW AURIGAE STARS  
 SUPERNOVAE  
 T TAURI STARS  
 U GEMINORUM STARS  
 VARIABLES

DATA CATEGORIES

PHOTOMETRY  
 OPTICAL ASTRONOMY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)			EPOCH 1900 AND 1950
IDENTIFICATION HD CATALOGUE NUMBER DM CATALOGUE NUMBER OTHER IDENTIFICATION NUMBERS NO. OF OBS. PER OBJECT OF MEAS. CHARTS AVAILABLE				COD CPD STANDARD VARIABLE STAR DESIGNATION VARIES FROM FEW TO THOUSANDS
RADIATION MAGNITUDES, VISUAL MAGNITUDES, PHOTOELECTRIC				LIMITED NUMBER UBV
VARIABLE STARS TYPE OF VARIABILITY MAXIMUM AND MINIMUM MAGNITUDES PERIOD OF VARIABILITY INDIVIDUAL OBSERVATIONS OTHER (SEE COMMENTS)				MEANS OF 1, 5 OR 10 DAYS ACCORDING TO TYPE

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO -20 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES: 1.0 TO 14.0 (VISUAL OR PHOTOGRAPHIC)  
 DISTANCE:

FORM(S) OF COMPILATION: PUNCHED COMPUTER CARDS  
 TYPED LISTS

KEY REFERENCE(S)

OBSERVATIONAL RECORDS OF SOUTHERN VARIABLE STARS OF ALL TYPES EXCEPT SHORT PERIOD VARIABLES

DESCRIPTION OF MACHINE-READABLE DATA FORMS  
 NONE GIVEN

REMARKS

RIGHT ASCENSION AND DECLINATION ARE TRANSCRIBED FROM THE GENERAL CATALOG OF VARIABLE STARS. A START HAS BEEN MADE TO PLACE RECORDS ON PUNCHED COMPUTER CARDS AND ON MAGNETIC TAPE. THIS SYSTEM IS BEING BUILT UP SLOWLY AS TIME AND FUNDS PERMIT.

DISTRIBUTORS OF THE DATA SET

NAME-----  
 MR. FRANK M. BATESON

-----ADDRESS-----  
 VARIABLE STAR SECTION, R.A.S.N.Z.  
 18 POOLLES ROAD  
 GREERTON  
 TAURANGA  
 NEW ZEALAND

-----CONDITIONS AND COMMENTS-----  
 IF RECORDS REQUIRED ARE LENGTHY, THE  
 COST OF COPYING IS PAYABLE.



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 \* 004 \*  
 \*\*\*\*\*

DR. JOHN H. BAUMERT  
 BOX 1402  
 CONNECTICUT COLLEGE  
 NEW LONDON, CT  
 06320

TELEPHONE: (203) 442-5391

\*\*\*\*\*

\* DATA FILE 004A \*\*\*\*\* STEPHENSON'S CATALOGUE OF COOL CARBON STARS \*\*\*\*\*

\*\*\*\*\* 3219 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1900)  
 3219 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION:

OBJECT CLASSES

CARBON STARS

DATA CATEGORIES

CROSS INDEX  
 INFRARED ASTRONOMY  
 OPTICAL ASTRONOMY  
 PHOTOMETRY  
 POSITIONAL ASTRONOMY  
 SPECTROSCOPY

DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)	AVERAGED	100	EPOCH 1900
IDENTIFICATION				
RUNNING NO. IN SOURCE CATALOGUE			100	
HD CATALOGUE NUMBER			100	NUMBER GIVEN IF IT HAS ONE
DM CATALOGUE NUMBER			100	BD COD NUMBER GIVEN IF IT HAS ONE
OTHER IDENTIFICATION NUMBERS			100	FROM VARIOUS FINDING LISTS
RADIATION				
MAGNITUDES, VISUAL	TRANSCR (REMARKS)	REDUCED	100	
MAGNITUDES, PHOTOGRAPHIC	TRANSCR (REMARKS)	REDUCED	100	
MAGNITUDES, OTHER	TRANSCR (REMARKS)	REDUCED	100	
SPECTRAL CLASS	TRANSCR (REMARKS)	RAW	100	

VARIABLE STARS

OTHER (SEE COMMENTS)

VARIABLE NAME (IF APPLICABLE)

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES: R, N, C  
 OTHER: SEE REMARKS

GALACTIC LATITUDE: -90 TO +90 DEGREES  
 GALACTIC LONGITUDE: 0 TO 360 DEGREES  
 MAGNITUDES:  
 DISTANCE:

FORM(S) OF COMPILATION: DIGITAL MAGNETIC TAPE  
 PUNCHED COMPUTER CARDS

KEY REFERENCE(S)

STEPHENSON, C.B. - PUBLICATIONS - WARNER AND WASEY OBS., VOL.1, NO. 4, 1973.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

1) ON CARDS : ALPHANUMERIC . 2) ON MAGNETIC TAPE : IMAGES OF CARDS; FOR FURTHER DETAILS  
 CONTACT DR. OCHSENBEIN

REMARKS

OTHER RANGES OR RESTRICTIONS OF COVERAGE INCLUDE ALTERNATE DESIGNATIONS AND SPECTRAL INFORMATION.  
 THE TRANSCRIBED DATA ARE TAKEN FROM MANY SOURCES. OCCASIONALLY AVERAGE VALUES ARE USED FOR RIGHT  
 ASCENSION AND DECLINATION.

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. FRANCOIS OCHSENBEIN	CENTRE DE DONNEES STELLAIRES OBSERVATOIRE DE STRASBOURG 11, RUE DE L'UNIVERSITE 67000 STRASBOURG FRANCE	MAGNETIC TAPE (PROBABLE CHARGE)

DR. JOHN H. BAUMERT  
 CONNECTICUT COLLEGE  
 BOX 1402  
 NEW LONDON, CT 06320

CURRENTLY UNABLE TO REPRODUCE DATA, BUT  
 CAN ANSWER QUESTIONS ABOUT DATA SET.

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 \* 005 \*  
 \*\*\*\*\*

DR. WILLIAM P. BIDELMAN  
 WARNER AND SWASEY OBSERVATORY  
 1975 TAYLOR ROAD  
 EAST CLEVELAND, OH  
 44112

TELEPHONE: (216) 451-5624

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\* DATA FILE B05A \*\*\*\*\* N. HEMISPHERE LOWELL OBS. PROPER-MOTION SURVEY \*\*\*\*\*

\*\*\*\*\*

2500 ENTRIES  
 9000 OBJECTS

30% COMPLETE  
 N/A% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 DATES OF OBSERVATION:

# OBJECT CLASSES

# DATA CATEGORIES

## SPECTROSCOPY

## DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)	REDUCED	100	EPOCH 1950
PROPER MOTION (TOTAL)	TRANSCR (REMARKS)	REDUCED	100	ERROR NOT SPECIFIED
PROPER MOTION (R.A., DEC.)	TRANSCR (REMARKS)	REDUCED	100	ERROR NOT SPECIFIED

## IDENTIFICATION

HD CATALOGUE NUMBER	10	
DM CATALOGUE NUMBER	20	BD
OTHER IDENTIFICATION NUMBERS	80	
CHARTS AVAILABLE	100	

## RADIATION

MAGNITUDES, PHOTOGRAPHIC	TRANSCR (REMARKS)	REDUCED	100	
MAGNITUDES, PHOTOELECTRIC	TRANSCR (REMARKS)	REDUCED	20	
SPECTRAL CLASS	TRANSCR (REMARKS)	REDUCED	30	ALSO ORIGINAL
COLORS	TRANSCR (REMARKS)	REDUCED	100	

## RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: 0 TO +90 DEGREES  
 SPECTRAL TYPES:  
 OTHER: SEE REMARKS

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES: 8.0 TO 15.0 (PHOTOGRAPHIC)  
 DISTANCE:

FORM(S) OF COMPILATION: BOUND BOOKS OR JOURNALS

KEY REFERENCE(S)

NONE GIVEN

DESCRIPTION OF MACHINE-READABLE DATA FORMS

NONE GIVEN

## REMARKS

BIDELMAN, AND A GRADUATE STUDENT, S.-G. LEE, ARE WORKING ON THE SPECTRAL CLASSIFICATION OF AS MANY AS POSSIBLE OF THE HIGH-PROPER MOTION STARS DISCOVERED AND PUBLISHED BY THE LOWELL OBSERVATORY IN THE NORTHERN HEMISPHERE. THE ONLY STARS BEING CONSIDERED ARE THE SO-CALLED 'G' OR GICLAS STARS, OF PROPER MOTIONS LARGER THAN 0.22 ARCSEC PER YEAR. THE LOWELL SURVEY IS THE ONLY EXTENSIVE AND SYSTEMATIC SUCH SURVEY FOR HIGH-PROPER MOTION STARS DONE TO DATE IN THE NORTHERN SKY, AND OF THE 9000 OR SO STARS FOUND ONLY 2500 OR SO HAVE KNOWN SPECTRAL TYPES. WE ARE ATTEMPTING TO DETERMINE MORE.

## DISTRIBUTORS OF THE DATA SET

NAME  
 DR. WILLIAM P. BIDELMAN

ADDRESS  
 WARNER AND SWASEY OBSERVATORY  
 1975 TAYLOR ROAD  
 EAST CLEVELAND, OH 44112

CONDITIONS AND COMMENTS  
 INQUIRIES WILL BE WELCOMED.

\*\*\*\*\*  
\* 005 \*  
\*\*\*\*\*

DR. WILLIAM P. BIDELMAN  
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1975 TAYLOR ROAD  
EAST CLEVELAND, OH  
44112

TELEPHONE: (216) 451-5624

\*\*\*\*\*

\* DATA FILE 005B \*\*\*\*\* ASTRONOMICAL DATA FILE \*\*\*\*\*

\*\*\*\*\* 65000 ENTRIES N/A% COMPLETE PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1900)  
65000 OBJECTS 33% MACHINE-READABLE DATES OF OBSERVATION:

OBJECT CLASSES		DATA CATEGORIES			COMMENTS AND OTHER INFORMATION
DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN		
POSITIONAL DATA					
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)	REDUCED	100	EPOCH 1900	
PROPER MOTION (TOTAL)	TRANSCR (REMARKS)	REDUCED	1	ERROR NOT SPECIFIED	
PARALLAX, TRIGONOMETRIC	TRANSCR (REMARKS)	REDUCED	1		
IDENTIFICATION					
RUNNING NO. IN SOURCE CATALOGUE					
HD CATALOGUE NUMBER					
DM CATALOGUE NUMBER					BD COD CPD
NGC, IC CATALOGUE NUMBER					
OTHER IDENTIFICATION NUMBERS	TRANSCR (REMARKS)	REDUCED			
CLUSTER, ASSOCIATION MEMBERSHIP	TRANSCR (REMARKS)	REDUCED	1		
GALAXY MEMBERSHIP	TRANSCR (REMARKS)	REDUCED	1		
CHARTS AVAILABLE	TRANSCR (REMARKS)	REDUCED	2		
REMARKS	TRANSCR (REMARKS)	REDUCED	1		ALSO ORIGINAL
RADIATION					
PHOTOMETRIC SYSTEM(S)					
MAGNITUDES, VISUAL	TRANSCR (REMARKS)	REDUCED	50		
MAGNITUDES, PHOTOGRAPHIC	TRANSCR (REMARKS)	REDUCED	45		
MAGNITUDES, PHOTOELECTRIC	TRANSCR (REMARKS)	REDUCED	4		
MAGNITUDES, OTHER	TRANSCR (REMARKS)	REDUCED	1		INFRARED, USUALLY
SPECTRAL CLASS	TRANSCR (REMARKS)	REDUCED	80		
EMISSION/ABSORPTION LINES	TRANSCR (REMARKS)	REDUCED	1		EMISSION LINES NOTED
LUMINOSITY CLASS	TRANSCR (REMARKS)	REDUCED	15		
COLORS	TRANSCR (REMARKS)	REDUCED	5		
POLARIZATION	TRANSCR (REMARKS)	REDUCED	1		
OTHER (SEE COMMENTS)	TRANSCR (REMARKS)	REDUCED	1		SPECTRAL PECULIARITIES
DERIVED QUANTITIES					
ABUNDANCES	TRANSCR (REMARKS)	REDUCED	1		USUALLY MERELY REFERENCE TO ABUND. PAPERS
VARIABLE STARS					
MULTIPLE SYSTEMS					
TYPE OF MULTIPLICITY	TRANSCR (REMARKS)	REDUCED	5		
MULTIPLICITY OF SYSTEM	TRANSCR (REMARKS)	REDUCED	5		
MAX/MIN MAGNITUDES OF SYSTEM	TRANSCR (REMARKS)	REDUCED	5		
OTHER (SEE COMMENTS)					REFERENCE TO EXISTENCE OF ORBIT, GIVING PLACE OF PUB.
OTHER					
ROTATIONAL VELOCITY	TRANSCR (REMARKS)	REDUCED	1		
RADIAL VELOCITY	TRANSCR (REMARKS)	REDUCED	10		
REDSHIFT	TRANSCR (REMARKS)	REDUCED	25		

#### RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
DECLINATION: -90 TO +90 DEGREES  
SPECTRAL TYPES:  
OTHER:

GALACTIC LATITUDE:  
GALACTIC LONGITUDE:  
MAGNITUDES:  
DISTANCE:

FORM(S) OF COMPILATION: DIGITAL MAGNETIC TAPE  
PUNCHED COMPUTER CARDS

#### KEY REFERENCE(S)

- PUBLICATIONS - LEANDER MCCORMICK OBS. 14, 172-186, 1971. - IAUSYMP NO. 50, 288, 1973.

DESCRIPTION OF MACHINE-READABLE DATA FORMS  
NONE GIVEN

#### REMARKS

THE PURPOSE OF THE ASTRONOMICAL DATA FILE IS TO FACILITATE ACCESS TO ALL SIGNIFICANT KNOWN DATA CONCERNING NON-SOLAR-SYSTEM OBJECTS. IN ALL CASES IT IS INTENDED TO GIVE REFERENCES TO ALL IMPORTANT PUBLISHED WORK; IN MANY CASES ACTUAL DATA (SPECTRAL TYPES, RADIAL VELOCITIES, COLORS, ETC.) ARE ALSO INCLUDED. SOME 65000 OBJECTS ARE PRESENTLY INCLUDED IN THE DATA FILE. IT IS DIVIDED INTO GALACTIC AND EXTRAGALACTIC OBJECTS, WITH EQUINOXES OF 1900 AND 1950 RESPECTIVELY. IT HAS BEEN BUILT-UP EXCLUSIVELY FROM THE LITERATURE, WITH EMPHASIS ON OBSERVATORY PUBLICATIONS AND THE EARLIER RUNS OF THE ASTRONOMICAL PERIODICALS.

#### DISTRIBUTORS OF THE DATA SET

NAME  
DR. WILLIAM P. BIDELMAN

ADDRESS  
WARNER AND SWASEY OBSERVATORY  
1975 TAYLOR ROAD  
EAST CLEVELAND, OH 44112

CONDITIONS AND COMMENTS  
INQUIRIES WILL BE ANSWERED TO THE  
MAXIMUM FEASIBLE EXTENT.

\*\*\*\*\*  
 \* 006 \*  
 \*\*\*\*\*

PROF. WILLIAM BUSCOMBE  
 ASTRONOMY DEPARTMENT  
 NORTHWESTERN UNIVERSITY  
 EVANSTON, IL  
 60201

TELEPHONE: (312) 492-7527

\*\*\*\*\*

\* DATA FILE 006A \*\*\*\*\* SUPERGIANTS IN THE MILKY WAY \*\*\*\*\*

\*\*\*\*\*

1569 ENTRIES  
 1569 OBJECTS

100% COMPLETE  
 N/AX MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: GALACTIC LONGITUDE  
 DATES OF OBSERVATION: 1930 TO 1974

OBJECT CLASSES

CEPHEIDS  
 SUPERGIANTS

DATA CATEGORIES

PHOTOMETRY  
 RADIAL VELOCITIES  
 SPECTROSCOPY

DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA GALACTIC COORDINATES			100	SYSTEM II
IDENTIFICATION HD CATALOGUE NUMBER			40	
DM CATALOGUE NUMBER			60	BD COD CPD
OTHER IDENTIFICATION NUMBERS			40	VARIABLE STAR NAME
RADIATION PHOTOMETRIC SYSTEM(S)				UBV
MAGNITUDES, VISUAL	TRANSCR			
MAGNITUDES, PHOTOGRAPHIC			40	
MAGNITUDES, PHOTOELECTRIC			60	
SPECTRAL CLASS			100	B5 OR LATER
LUMINOSITY CLASS			80	I ONLY
COLOR EXCESS		REDUCED	60	
DERIVED QUANTITIES OTHER (SEE COMMENTS)			60	DISTANCE
VARIABLE STARS TYPE OF VARIABILITY				
PERIOD OF VARIABILITY			15	CEPHEIDS
OTHER RADIAL VELOCITY			25	
RANGE OF COVERAGE RIGHT ASCENSION:				GALACTIC LATITUDE:
DECLINATION:				GALACTIC LONGITUDE:
SPECTRAL TYPES:				MAGNITUDES:
OTHER:				DISTANCE:

FORM(S) OF COMPILATION: 35 TABULATED SHEETS  
 DIGITAL MAGNETIC TAPE

KEY REFERENCE(S)  
 - VARIABLE STARS (MOSCOW), SUPPL. 2, 127, 1974

DESCRIPTION OF MACHINE-READABLE DATA FORMS  
 NONE GIVEN

REMARKS  
 NONE GIVEN

DISTRIBUTORS OF THE DATA SET

NAME-----  
 PROF. WILLIAM BUSCOMBE

ADDRESS-----  
 ASTRONOMY DEPARTMENT  
 NORTHWESTERN UNIVERSITY  
 EVANSTON, IL 60201

CONDITIONS AND COMMENTS

\*\*\*\*\*  
 \* 006 \*  
 \*\*\*\*\*

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 60201

TELEPHONE: (312) 492-7527

\*\*\*\*\*

\* DATA FILE 006B \*\*\*\*\* MK SPECTRAL CLASSIFICATIONS \*\*\*\*\*

\*\*\*\*\*

38000 ENTRIES  
 30000 OBJECTS

90% COMPLETE  
 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (2000)  
 DATES OF OBSERVATION: 1940 TO 1976

OBJECT CLASSES

DATA CATEGORIES

PHOTOMETRY  
 SPECTROSCOPY

DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	TRANSCR		99	EPOCH 2000
IDENTIFICATION				
HD CATALOGUE NUMBER			60	
DM CATALOGUE NUMBER			10	BD COD CPD
OTHER IDENTIFICATION NUMBERS			35	INCLUDING VARIABLE STAR NAME
CLUSTER, ASSOCIATION MEMBERSHIP			5	
RADIATION				
PHOTOMETRIC SYSTEM(S)				UBV
MAGNITUDES, VISUAL	TRANSCR		10	
MAGNITUDES, PHOTOELECTRIC			80	
SPECTRAL CLASS			100	
LUMINOSITY CLASS			95	
COLORS			80	
MULTIPLE SYSTEMS				
MULTIPLICITY OF SYSTEM	TRANSCR		10	COMPONENTS INCLUDED IN SP. TYPE OR PHOTOMETRY
RANGE OF COVERAGE				
RIGHT ASCENSION:	0 TO 24 HOURS			GALACTIC LATITUDE:
DECLINATION:	-90 TO +90 DEGREES			GALACTIC LONGITUDE:
SPECTRAL TYPES:				MAGNITUDES:
OTHER:				DISTANCE:

FORM(S) OF COMPILATION: 38000 PUNCHED COMPUTER CARDS  
 DIGITAL MAGNETIC TAPE

KEY REFERENCE(S)

DESCRIPTION OF MACHINE-READABLE DATA FORMS  
 MK SPECTRAL CLASSIFICATIONS, THIRD GENERAL CATALOGUE (NORTHWESTERN UNIV., EVANSTON, 1977)  
 NONE GIVEN

REMARKS

NONE GIVEN

DISTRIBUTORS OF THE DATA SET

NAME-----  
 PROF. WILLIAM BUSCOMBE

-----ADDRESS-----  
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 NORTHWESTERN UNIVERSITY  
 EVANSTON, IL 60201

-----CONDITIONS AND COMMENTS-----

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 \* 006 \*  
 \*\*\*\*\*

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TELEPHONE: (312) 492-7527

\*\*\*\*\*

\* DATA FILE 006C \*\*\*\*\* GALACTIC OPEN STAR CLUSTERS \*\*\*\*\*

\*\*\*\*\*

500 ENTRIES  
 500 OBJECTS

90% COMPLETE  
 N/A% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1900)  
 DATES OF OBSERVATION: 1950 TO 1976

OBJECT CLASSES		DATA CATEGORIES		
ASSOCIATIONS		PHOTOMETRY		
OPEN CLUSTERS		RADIAL VELOCITIES		
DATA ITEMS APPEARING IN THE FILE				
ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
-----				
POSITIONAL DATA				
GALACTIC COORDINATES			100	SYSTEM II
IDENTIFICATION				
NGC, IC CATALOGUE NUMBER			50	
OTHER IDENTIFICATION NUMBERS			50	
RADIATION				
PHOTOMETRIC SYSTEM(S)				UBV
MAGNITUDES, VISUAL	TRANSCR		85	
MAGNITUDES, PHOTOGRAPHIC			100	
MAGNITUDES, PHOTOELECTRIC			100	
COLOR EXCESS		REDUCED	100	
DERIVED QUANTITIES				
OTHER (SEE COMMENTS)		AVERAGED	100	DISTANCE
OTHER				
RADIAL VELOCITY	TRANSCR	AVERAGED	40	
RANGE OF COVERAGE				
RIGHT ASCENSION:				GALACTIC LATITUDE:
DECLINATION:				GALACTIC LONGITUDE:
SPECTRAL TYPES:				MAGNITUDES:
OTHER:				DISTANCE:
FORM(S) OF COMPILATION: 10 TABULATED SHEETS				
KEY REFERENCE(S)				
NONE GIVEN				
DESCRIPTION OF MACHINE-READABLE DATA FORMS				
NONE GIVEN				
REMARKS				
NONE GIVEN				
DISTRIBUTORS OF THE DATA SET				
NAME-----		ADDRESS-----		CONDITIONS AND COMMENTS
PROF. WILLIAM BUSCOMBE		ASTRONOMY DEPARTMENT NORTHWESTERN UNIVERSITY EVANSTON, IL 60201		

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 \* 006 \*  
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 ASTRONOMY DEPARTMENT  
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 60201

TELEPHONE: (312) 492-7527

\*\*\*\*\*  
 \* DATA FILE 0060 \*\*\*\*\*  
 \*\*\*\*\*

SOUTHERN HIGH-VELOCITY STARS \*\*\*\*\*

1629 ENTRIES  
 1571 OBJECTS

50% COMPLETE  
 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1900)  
 DATES OF OBSERVATION: 1900 TO 1975

# OBJECT CLASSES

HIGH-VELOCITY STARS

# DATA CATEGORIES

ASTROMETRY  
 PARALLAXES  
 PHOTOMETRY  
 POSITIONAL ASTRONOMY  
 PROPER MOTIONS  
 RADIAL VELOCITIES  
 SPACE MOTIONS  
 SPECTROSCOPY

# DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
<b>POSITIONAL DATA</b>				
RIGHT ASCENSION, DECLINATION	TRANSCR (HD)		100	EPOCH 1900
PROPER MOTION (TOTAL)	TRANSCR		99	ERROR NOT SPECIFIED
PARALLAX, TRIGONOMETRIC	TRANSCR		60	
PARALLAX, SPECTROSCOPIC			20	
<b>IDENTIFICATION</b>				
HD CATALOGUE NUMBER			90	
DM CATALOGUE NUMBER			5	BD COD CPD
OTHER IDENTIFICATION NUMBERS			5	INCLUDING LUYTEN'S AND VARIABLE STAR NAME
<b>RADIATION</b>				
PHOTOMETRIC SYSTEM(S)				UBV
MAGNITUDES, VISUAL	TRANSCR		42	
MAGNITUDES, PHOTOGRAPHIC			56	
MAGNITUDES, PHOTOELECTRIC			85	
SPECTRAL CLASS			100	
LUMINOSITY CLASS			70	
COLORS			85	
<b>VARIABLE STARS</b>				
TYPE OF VARIABILITY			5	MAINLY SR AND LP
<b>OTHER</b>				
SPACE VELOCITY	ORIGINAL	REDUCED	30	
<b>RANGE OF COVERAGE</b>				
RIGHT ASCENSION:				GALACTIC LATITUDE:
DECLINATION: -90 TO 0 DEGREES				GALACTIC LONGITUDE:
SPECTRAL TYPES:				MAGNITUDES: TO 13.0
OTHER:				DISTANCE:

FORM(S) OF COMPILATION: 3000 PUNCHED COMPUTER CARDS

# KEY REFERENCE(S)

BUSCOMBE AND MORRIS - UPDATE OF MOUNT STROMLO OBS. MEMOIR 14, 1958.

# DESCRIPTION OF MACHINE-READABLE DATA FORMS

NONE GIVEN

# REMARKS

NONE GIVEN

# DISTRIBUTORS OF THE DATA SET

NAME-----  
 PROF. WILLIAM BUSCOMBE

ADDRESS-----  
 ASTRONOMY DEPARTMENT  
 NORTHWESTERN UNIVERSITY  
 EVANSTON, IL 60201

# CONDITIONS AND COMMENTS



\*\*\*\*\*  
 \* 007 \*  
 \*\*\*\*\*

DR. JULIUS H. CAHN                      TELEPHONE: (217) 333-3090  
 UNIVERSITY OF ILLINOIS OBSERVATORY  
 URBANA, IL  
 61801

\*\*\*\*\*  
 \* DATA FILE 007A \*  
 \*\*\*\*\*

\*\*\*\*\* INTERSTELLAR ABSORPTION \*\*\*\*\*

N/A ENTRIES                      N/A% COMPLETE                      PRIMARY SEQUENCE OF ORDERING: GALACTIC LONGITUDE  
 N/A OBJECTS                      100% MACHINE-READABLE                      DATES OF OBSERVATION:

OBJECT CLASSES

DATA CATEGORIES

OPTICAL ASTRONOMY  
 RADIO ASTRONOMY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
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POSITIONAL DATA  
 GALACTIC COORDINATES

RADIATION  
 EXTINCTION

RANGE OF COVERAGE

RIGHT ASCENSION:  
 DECLINATION:  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE: -90 TO +90 DEGREES  
 GALACTIC LONGITUDE: 0 TO 360 DEGREES  
 MAGNITUDES:  
 DISTANCE: 0 TO 3000 PC

FORM(S) OF COMPILATION: PUNCHED COMPUTER CARDS

KEY REFERENCE(S)

FITZGERALD, M.P. - ASTROPHYS. J., 73, 983, 1968. CAHN, J.H. - ASTROPHYS. J., 81, 407, 1976.

DESCRIPTION OF MACHINE-READABLE DATA FORMS  
 NONE GIVEN

REMARKS

PROGRAM ENABLES USER TO DETERMINE STELLAR DISTANCES KNOWING THE UNCORRECTED DISTANCE MODULUS.  
 PROGRAM CONTAINS EXTINCTION DISTRIBUTION WITHIN ABOUT 3 KPC FROM THE SUN.

DISTRIBUTORS OF THE DATA SET

NAME-----  
 DR. JULIUS H. CAHN

-----ADDRESS-----  
 UNIVERSITY OF ILLINOIS OBSERVATORY  
 URBANA, IL 61801

-----CONDITIONS AND COMMENTS-----

\*\*\*\*\*  
 \* 008 \*  
 \*\*\*\*\*

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 SMITHSONIAN ASTROPHYSICAL OBSERVATORY  
 60 GARDEN STREET  
 CAMBRIDGE, MA  
 02138

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 \*  
 \* DATA FILE 008A \*\*\*\*\*  
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UBV, H-BETA OBSERVATIONS OF CELESCOPE STARS \*\*\*\*\*

3901 ENTRIES      100% COMPLETE      PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 3901 OBJECTS      100% MACHINE-READABLE      DATES OF OBSERVATION: 1973 TO 1974

## OBJECT CLASSES

## DATA CATEGORIES

CROSS INDEX  
 OPTICAL ASTRONOMY  
 PHOTOMETRY

## DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
<b>POSITIONAL DATA</b>				
RIGHT ASCENSION, DECLINATION	TRANSCR (SAO)	AVERAGED	100	EPOCH 1950
GALACTIC COORDINATES			100	SYSTEM II
OTHER (SEE COMMENTS)	ORIGINAL (REMARKS)	PREDICTED	99	PHOTOMETRICALLY-DERIVED DISTANCE
<b>IDENTIFICATION</b>				
HD CATALOGUE NUMBER			91	REMAINING 9% HAVE NO HD NUMBERS
DM CATALOGUE NUMBER			100	BD COD CPD SAME CONVENTION AS HD
REMARKS			50	
OTHER (SEE COMMENTS)	TRANSCR (REMARKS)		2	VARIABLE STAR NAME
<b>RADIATION</b>				
MAGNITUDES, PHOTOELECTRIC	ORIGINAL	AVERAGED	100	ABOUT 10% (AS INDICATED) ARE TRANSCRIBED
MAGNITUDES, OTHER	TRANSCR (REMARKS)	AVERAGED	100	CELESCOPE ULTRAVIOLET MAGS
SPECTRAL CLASS	TRANSCR (HD)	REDUCED	100	ABOUT 33% HAVE MK TYPES
EMISSION/ABSORPTION LINES	TRANSCR (REMARKS)		5	
LUMINOSITY CLASS	TRANSCR (REMARKS)	AVERAGED	33	
COLORS	ORIGINAL	AVERAGED	100	100% UBV; ABOUT 75% H-BETA
COLOR EXCESS	ORIGINAL	PREDICTED	99	
EXTINCTION	ORIGINAL	PREDICTED	99	
<b>VARIABLE STARS</b>				
TYPE OF VARIABILITY	TRANSCR (REMARKS)		2	
<b>MULTIPLE SYSTEMS</b>				
MULTIPLICITY OF SYSTEM	TRANSCR (REMARKS)		9	
OTHER (SEE COMMENTS)	TRANSCR (REMARKS)		9	SEPARATE MEASURES FOR STARS POLLUTING UV IMAGE
<b>RANGE OF COVERAGE</b>				
RIGHT ASCENSION:	0 TO 24 HOURS			GALACTIC LATITUDE:
DECLINATION:	-90 TO +90 DEGREES			GALACTIC LONGITUDE:
SPECTRAL TYPES:				MAGNITUDES: -1.5 TO 9.0 (VISUAL OR PHOTOGRAPHIC)
OTHER:				DISTANCE:
FORM(S) OF COMPILATION: DIGITAL MAGNETIC TAPE BOUND BOOKS				
KEY REFERENCE(S) DEUTSCHMAN, W.A., R.J. DAVIS, AND R. SCHILD - GALACTIC DISTRIBUTION OF INTERSTELLAR ABSORPTION AS DETERMINED FROM THE CELESCOPE CATALOG OF ULTRAVIOLET STELLAR OBSERVATIONS AND A NEW CATALOG OF UBV, H-BETA PHOTOELECTRIC OBSERVATIONS, ASTROPHYS. J. SUPPL., 30, 97, 1976.				
DESCRIPTION OF MACHINE-READABLE DATA FORMS THE MAIN DATA TABLE (APPENDIX B OF THE REFERENCE) IS AVAILABLE AS A BCD MAGNETIC TAPE, INCLUDING PAGE-EJECT AND LINE-FEED CHARACTERS, IDENTICAL TO THE PUBLISHED CATALOG. IT WAS WRITTEN BY A CDC 6400 COMPUTER WITH A FORTRAN 'WRITE(N,F)' STATEMENT. EVEN-NUMBERED PAGES ARE ON FILE 1; ODD-NUMBERED PAGES ARE ON FILE 2. APPENDIX C IS AVAILABLE AS A DECK OF PUNCHED CARDS.				
REMARKS A LARGE NUMBER OF ADDITIONAL REFERENCES ARE LISTED IN THE PUBLISHED AP. J. SUPPLEMENT. MOST STARS ARE WITHIN 20 DEGREES OF THE GALACTIC EQUATOR.				

## DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. ROBERT J. DAVIS.	SMITHSONIAN INSTITUTION ASTROPHYSICAL OBSERVATORY 60 GARDEN STREET CAMBRIDGE, MA 02138	REQUESTER MUST PAY COMPUTER COSTS; MAY EITHER BUY TAPE FROM SAO OR FURNISH OWN TAPE.

\*\*\*\*\*  
 \* 008 \*  
 \*\*\*\*\*

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 SMITHSONIAN ASTROPHYSICAL OBSERVATORY  
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 02138

TELEPHONE: (617) 495-7335

\*\*\*\*\*

\* DATA FILE 008B \*\*\*\*\* EXPANDED BRIGHT STAR CATALOG \*\*\*\*\*

\*\*\*\*\* 9110 ENTRIES 80% COMPLETE PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1900)  
 9110 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION:

OBJECT CLASSES

DATA CATEGORIES

CROSS INDEX

DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
<b>POSITIONAL DATA</b>				
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)	REDUCED	100	EPOCH 1900
PROPER MOTION (R.A., DEC.)	TRANSCR (REMARKS)	REDUCED	99	ERROR NOT SPECIFIED
PARALLAX, TRIGONOMETRIC	TRANSCR (REMARKS)	REDUCED	20	
<b>IDENTIFICATION</b>				
RUNNING NO. IN SOURCE CATALOGUE			100	
HD CATALOGUE NUMBER			100	
DM CATALOGUE NUMBER			100	BD COD CPD
OTHER IDENTIFICATION NUMBERS			99	SEE PUBLISHED YALE BRIGHT STAR CATALOGUE
REMARKS			15	SEE PUBLISHED YALE BRIGHT STAR CATALOGUE
OTHER (SEE COMMENTS)	TRANSCR (REMARKS)		3	VARIABLE STAR NAME
<b>RADIATION</b>				
MAGNITUDES, VISUAL	TRANSCR (REMARKS)	REDUCED	25	
MAGNITUDES, PHOTOELECTRIC	TRANSCR (REMARKS)	REDUCED	75	
SPECTRAL CLASS	TRANSCR (REMARKS)	AVERAGED	99	
EMISSION/ABSORPTION LINES	TRANSCR (REMARKS)		1	
LUMINOSITY CLASS	TRANSCR (REMARKS)	AVERAGED	70	
COLORS	TRANSCR (REMARKS)	AVERAGED	75	UBV; UVBY; H-BETA
<b>VARIABLE STARS</b>				
TYPE OF VARIABILITY	TRANSCR (REMARKS)		3	NOT YET ADDED TO DATA TAPE
<b>MULTIPLE SYSTEMS</b>				
TYPE OF MULTIPLICITY	TRANSCR (REMARKS)		20	
MULTIPLICITY OF SYSTEM	TRANSCR (REMARKS)		20	
MAX/MIN MAGNITUDES OF SYSTEM	TRANSCR (REMARKS)		20	
SEPARATION (VISUAL BINARIES)	TRANSCR (REMARKS)		20	

OTHER

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES: -1.5 TO 6.5 (VISUAL OR PHOTOGRAPHIC)  
 DISTANCE:

FORM(S) OF COMPILATION: DIGITAL MAGNETIC TAPE

KEY REFERENCE(S)

THE 1967 MAGNETIC TAPE VERSION OF THE YALE BRIGHT STAR CATALOGUE

DESCRIPTION OF MACHINE-READABLE DATA FORMS

THE PRESENT FORMAT IS SUBJECT TO CHANGE. IT CONTAINS MOST OF THE DATA IN BCD FORMAT, BLOCKED IN RECORDS SHORTER THAN 512 SIXTY-BIT WORDS. SOME OF THE WORDS ARE IN CDC SCOPE-MODE FORMAT. COPIES CAN BE GENERATED ON 7-TRACK TAPE AT 200, 556, OR 800 BPI, OR ON 9-TRACK TAPE AT 800 OR 1600 BPI.

REMARKS

THE 1967 MAGNETIC TAPE VERSION OF THE YALE BRIGHT STAR CATALOGUE IS THE SOURCE OF ALL INFORMATION EXCEPT PHOTOMETRIC, SPECTROSCOPIC, AND VARIABLE-STAR DATA. UVBY AND H-BETA DATA ARE FROM CRAWFORD ET AL., ASTRON. J., VOL. 78, P. 738 ET SEQ., 1973, AND THE SEVERAL ADDITIONAL PAPERS BY CRAWFORD ET AL. REFERENCED IN THE THIRD PARAGRAPH THEREOF. UVB AND SPECTRA ARE FROM SEVERAL OTHERS SOURCES. ALL UNIQUE SPECTRAL TYPES BETWEEN 00 AND M9.9 ARE ALSO SPECIFIED NUMERICALLY BY A CDC SCOPE-MODE WORD BETWEEN 0.0 AND 69.9. ALL UNIQUE LUMINOSITY CLASSES BETWEEN I A+ AND VI ARE ALSO SPECIFIED NUMERICALLY BY A CDC SCOPE-MODE WORD BETWEEN -0.5 AND +6.0-- INCLUDING MT. WILSON LUMINOSITY CLASSES SPECIFIED BY THE LETTERS C, G, SG, SD, AND D. EACH INDIVIDUAL WORD IN EACH RECORD, WHERE APPROPRIATE, CONTAINS A 3-CHARACTER IDENTIFIER OF THE LITERATURE REFERENCE FROM WHICH THAT PARTICULAR RECORD WAS DERIVED. EACH RECORD CONTAINS A WORD INDICATING THE DATE AND TIME OF THE COMPUTER RUN WHEN THAT RECORD WAS LAST CHANGED.

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. ROBERT J. DAVIS	SMITHSONIAN INSTITUTION ASTROPHYSICAL OBSERVATORY 60 GARDEN STREET CAMBRIDGE, MA 02138	THE USER AGREES TO ACCEPT THE RISKS INHERENT IN USING A DATA FILE THAT HAS NOT BEEN CHECKED FOR ERRORS. THE REQUESTER MUST PAY COMPUTER CHARGES.

\*\*\*\*\*  
 \* 008 \*  
 \*\*\*\*\*

DR. ROBERT J. DAVIS                      TELEPHONE: (617) 495-7335  
 SMITHSONIAN ASTROPHYSICAL OBSERVATORY  
 60 GARDEN STREET  
 CAMBRIDGE, MA  
 02138

\*\*\*\*\*

\* DATA FILE 008C \*\*\*\*\* CELESCOPE CATALOGUE OF ULTRAVIOLET STELLAR OBSERV. \*\*\*\*\*

\*\*\*\*\*  
 13646 ENTRIES                      100% COMPLETE                      PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 5068 OBJECTS                      100% MACHINE-READABLE                      DATES OF OBSERVATION: 1968 TO 1970

OBJECT CLASSES

DATA CATEGORIES

CROSS INDEX

ULTRAVIOLET ASTRONOMY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	TRANSCR (SAO)	AVERAGED	100	EPOCH 1950
IDENTIFICATION				
HD CATALOGUE NUMBER			91	REMAINING 9% HAVE NO HD NUMBERS.
DM CATALOGUE NUMBER			100	BD COD CPD
OTHER (SEE COMMENTS)	TRANSCR (REMARKS)		2	VARIABLE STAR NAME
RADIATION				
MAGNITUDES, VISUAL	TRANSCR (HD)	REDUCED	62	ALSO FROM DM AND SAO
MAGNITUDES, PHOTOGRAPHIC	TRANSCR (HD)	REDUCED	36	
MAGNITUDES, PHOTOELECTRIC	TRANSCR (REMARKS)	AVERAGED	37	
MAGNITUDES, OTHER	ORIGINAL (REMARKS)	AVERAGED	100	REDUCED ARE ALSO ON MAGNETIC TAPE
SPECTRAL CLASS	TRANSCR (HD)	AVERAGED	94	32% HAVE MK SPECTRA
EMISSION/ABSORPTION LINES	TRANSCR (REMARKS)		5	
LUMINOSITY CLASS	TRANSCR (REMARKS)	AVERAGED	32	
COLORS	TRANSCR (REMARKS)	AVERAGED	37	UBV AND (UBV)C
VARIABLE STARS				
TYPE OF VARIABILITY	TRANSCR (REMARKS)		2	
MULTIPLE SYSTEMS				
MULTIPLICITY OF SYSTEM	TRANSCR (REMARKS)		9	
OTHER (SEE COMMENTS)	ORIGINAL (REMARKS)		9	ID OF NEARBY STARS POLLUTING IMAGE

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES:  
 OTHER: ABOUT 10% OF THE SKY

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES: 3.0 TO 14.0  
 DISTANCE:

FORM(S) OF COMPILATION: DIGITAL MAGNETIC TAPE  
 BOUND BOOKS

KEY REFERENCE(S)

DAVIS, R.J., W.A. DEUTSCHMAN, AND K.L. HARAMUNDANIS - CELESCOPE CATALOG OF ULTRAVIOLET STELLAR OBSERVATIONS, SMITHSONIAN INST., GPO STOCK NO. 4700-00260, WASH., D.C., 1973.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

THE LOGICAL STRUCTURE OF THE TAPE IS DESCRIBED IN SMITHSONIAN ASTROPHYSICAL OBSERVATORY SPECIAL REPORT NO. 350. IT WAS WRITTEN BY A CDC 6400 COMPUTER WITH A FORTRAN 'BUFFER OUT' STATEMENT. EACH RECORD CONTAINS THE DATA FOR ALL OBSERVATIONS OF A GIVEN STAR. MANY COMMON TAPE FORMATS ARE AVAILABLE.

REMARKS

A LARGE NUMBER OF ADDITIONAL REFERENCES ARE LISTED IN THE CELESCOPE CATALOGUE UTILITY PROGRAMS FOR READING AND PRINTING THE CATALOG TAPE ARE ALSO AVAILABLE; THESE PROGRAMS ARE DESCRIBED IN SAO SPECIAL REPORT NO. 350. THE DATA TABLE OF THE CELESCOPE CATALOG IS ALSO AVAILABLE AS A BCD MAGNETIC TAPE, COMPLETE WITH PAGE-EJECT AND LINE-FEED CHARACTERS, EXACTLY AS PUBLISHED. MOST STARS ARE WITHIN 20 DEGREES OF THE GALACTIC EQUATOR.

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. ROBERT J. DAVIS	SMITHSONIAN INSTITUTION ASTROPHYSICAL OBSERVATORY 60 GARDEN STREET CAMBRIDGE, MA 02138	REQUESTER MUST PAY COMPUTER COSTS; MAY EITHER BUY TAPE FROM SAO OR FURNISH OWN TAPE.
MR. WILLIAM VALENTE	CODE 601 NATIONAL SPACE SCIENCE DATA CENTER GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SUPPLY BLANK MAGNETIC TAPE AND IDENTIFY THESE DATA BY INDICATING '68-110A-01 (SMITHSONIAN OAO DATA)'.

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 \* 009 \*  
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THE DIRECTOR  
 COMPUTER CENTER  
 UNIVERSITY OF ARIZONA  
 TUCSON, AZ  
 85721

TELEPHONE: (602) 884-0111

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\* DATA FILE 009A \*\*\*\*\* INFRARED SPECTRA FOR 32 STARS \*\*\*\*\*

\*\*\*\*\*

40000 ENTRIES  
 32 OBJECTS

100% COMPLETE  
 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: SPECTRAL TYPE  
 DATES OF OBSERVATION: 1965 TO 1969

OBJECT CLASSES

A STARS  
 CARBON STARS  
 F STARS  
 G STARS  
 K STARS  
 M STARS

DATA CATEGORIES

INFRARED ASTRONOMY  
 SPECTROPHOTOMETRY  
 SPECTROSCOPY

DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
IDENTIFICATION OTHER (SEE COMMENTS)	TRANSCR			STAR NAMES
RADIATION OTHER (SEE COMMENTS)	ORIGINAL	REDUCED	100	F.T. SPECTRA
RANGE OF COVERAGE				
RIGHT ASCENSION:	0 TO 24 HOURS			GALACTIC LATITUDE:
DECLINATION:	-20 TO +60 DEGREES			GALACTIC LONGITUDE:
SPECTRAL TYPES:	A0-M9			MAGNITUDES:
OTHER:				DISTANCE:
FORM(S) OF COMPILATION: REPRINTS				
	DIGITAL MAGNETIC TAPE			
	PUNCHED COMPUTER CARDS			
KEY REFERENCE(S)				
	JOHNSON, H.L., AND M.E. MENDEZ - ASTRONOM. J., 75, 785, 1970.			
DESCRIPTION OF MACHINE-READABLE DATA FORMS				
THIS CATALOGUE IS PRESENTLY AVAILABLE ON ASCII PUNCHED COMPUTER CARDS. THE DATA CAN BE WRITTEN ON 9-TRACK MAGNETIC TAPE IN ANY INDUSTRY COMPATIBLE FORMAT INCLUDING THE DEC-SYSTEM-10 AND CDC-6400 INTERNAL FORMAT.				
REMARKS				
	NONE GIVEN			

DISTRIBUTORS OF THE DATA SET

NAME-----  
 THE DIRECTOR

ADDRESS-----  
 COMPUTER CENTER  
 ARIZONA UNIVERSITY  
 TUCSON, AZ 85721

CONDITIONS AND COMMENTS  
 COST OF PRODUCTION AS DETERMINED BY  
 THE DIRECTOR.

\*\*\*\*\*  
 \* 010 \*  
 \*\*\*\*\*

DR. ROBERT S. DIXON  
 RADIO OBSERVATORY  
 OHIO STATE UNIVERSITY  
 2015 NEIL AVENUE  
 COLUMBUS, OH  
 43210

TELEPHONE: (614) 422-6789

\*\*\*\*\*

DATA FILE 010A \*\*\*\*\* BESSELIAN DAY NUMBERS FOR THE PALOMAR PRINTS \*\*\*\*\*

\*\*\*\*\*

1000 ENTRIES  
 N/A OBJECTS

100% COMPLETE  
 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 DATES OF OBSERVATION:

OBJECT CLASSES

DATA CATEGORIES

OPTICAL ASTRONOMY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA				
OTHER (SEE COMMENTS)	ORIGINAL		100	BESSELIAN DAY NUMBERS

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -45 TO +90 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES:  
 DISTANCE:

FORM(S) OF COMPILATION: 1000 PUNCHED COMPUTER CARDS

KEY REFERENCE(S)

LUND AND DIXON - USER'S GUIDE TO THE PALOMAR SKY SURVEY, PASP, 85, 230, 1973.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

NONE GIVEN

REMARKS

THESE ARE USEFUL FOR PROCESSING POSITIONS OF THE EPOCH OF THE PALOMAR PRINTS, INCLUDING THE WHITEOAK EXTENSION. THE DISTRIBUTION CHARGES ARE BASED ON OUR ACTUAL COSTS FOR REPRODUCING THE DATA, SHIPPING, AND ADMINISTRATION. IN EXCEPTIONAL CASES, AND BASED ON A SHOWING OF NO FUNDS AVAILABLE FOR PURCHASE, WE WILL SEND THE DATA FREE OF CHARGE AS A GESTURE OF SCIENTIFIC GOOD WILL.

DISTRIBUTORS OF THE DATA SET

NAME-----  
 DR. ROBERT S. DIXON

ADDRESS-----  
 RADIO OBSERVATORY  
 OHIO STATE UNIVERSITY  
 2015 NEIL AVENUE  
 COLUMBUS, OH 43210

CONDITIONS AND COMMENTS  
 THE COST IS 10 DOLLARS

\*\*\*\*\*  
 \* 010 \*  
 \*\*\*\*\*

DR. ROBERT S. DIXON  
 RADIO OBSERVATORY  
 OHIO STATE UNIVERSITY  
 2015 NEIL AVENUE  
 COLUMBUS, OH  
 43210

TELEPHONE: (614) 422-6789

\*\*\*\*\*  
 \* DATA FILE 010B \*\*\*\*\* BAKER'S SECOND GALAXY CATALOGUE \*\*\*\*\*  
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1079 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (2000)  
 1079 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION: 1931 TO 1932

OBJECT CLASSES		DATA CATEGORIES		
GALAXIES		OPTICAL ASTRONOMY		
DATA ITEMS APPEARING IN THE FILE		TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN
ITEM				COMMENTS AND OTHER INFORMATION
<b>POSITIONAL DATA</b>				
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)	REDUCED	100	EPOCH 2000
OTHER (SEE COMMENTS)	TRANSCR (REMARKS)	REDUCED	100	ANGULAR DIAMETER AND POSITION ANGLE
<b>IDENTIFICATION</b>				
RUNNING NO. IN SOURCE CATALOGUE			100	
<b>RADIATION</b>				
MAGNITUDES, PHOTOGRAPHIC	TRANSCR (REMARKS)	REDUCED	100	
OTHER (SEE COMMENTS)	TRANSCR (REMARKS)	REDUCED	100	SURFACE MAGNITUDE
<b>DERIVED QUANTITIES</b>				
OTHER (SEE COMMENTS)				CLASSIFICATION
<b>RANGE OF COVERAGE</b>				
RIGHT ASCENSION:	3 TO 04 HOURS			GALACTIC LATITUDE:
DECLINATION:	-28 TO -16 DEGREES			GALACTIC LONGITUDE:
SPECTRAL TYPES:				MAGNITUDES:
OTHER:				DISTANCE:
FORM(S) OF COMPILATION: 1079 PUNCHED COMPUTER CARDS				
KEY REFERENCE(S)				
BAKER, R.H. - CATALOG OF 1113 GALAXIES IN A REGION IN FORNAX AND ERIDANUS, HARVARD ANNALS, 88, NO. 6, 1937				
DESCRIPTION OF MACHINE-READABLE DATA FORMS				
NONE GIVEN				
REMARKS				
NGC/IC OBJECTS ARE OMITTED. THE TRANSCRIBED DATA ARE FROM THE ORIGINAL CATALOG. THE DISTRIBUTION CHARGES ARE BASED ON OUR ACTUAL COSTS FOR REPRODUCING THE DATA, SHIPPING, AND ADMINISTRATION. IN EXCEPTIONAL CASES, AND BASED ON A SHOWING OF NO FUNDS AVAILABLE FOR PURCHASE, WE WILL SEND THE DATA FREE OF CHARGE AS A GESTURE OF SCIENTIFIC GOOD WILL.				
DISTRIBUTORS OF THE DATA SET				
NAME		ADDRESS		CONDITIONS AND COMMENTS
DR. ROBERT S. DIXON		RADIO OBSERVATORY OHIO STATE UNIVERSITY 2015 NEIL AVENUE COLUMBUS, OH 43210		THE COST IS 10 DOLLARS



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DR. ROBERT S. DIXON  
 RADIO OBSERVATORY  
 OHIO STATE UNIVERSITY  
 2015 NEIL AVENUE  
 COLUMBUS, OH  
 43210

TELEPHONE: (614) 422-6789

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 \* DATA FILE 010C \*  
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\*\*\*\*\* SAO STAR CATALOG SORTED BY PALOMAR PRINT AREAS \*\*\*\*\*

250000 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 225000 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION:

OBJECT CLASSES

DATA CATEGORIES

ASTROMETRY  
 OPTICAL ASTRONOMY  
 POSITIONAL ASTRONOMY  
 SPACE MOTIONS

DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	TRANSCR (SAO)	REDUCED	100	EPOCH 1950 AND PRINT
PROPER MOTION (R.A., DEC.)	TRANSCR (SAO)	REDUCED	100	ERROR NOT SPECIFIED
OTHER (SEE COMMENTS)	TRANSCR (SAO)	REDUCED	100	POSITION ERROR
IDENTIFICATION				
SAO CATALOGUE NUMBER			100	
CHARTS AVAILABLE			100	SHOWING BOUNDARIES OF EACH PRINT
RADIATION				
MAGNITUDES, VISUAL	TRANSCR (SAO)	REDUCED	100	

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -45 TO +90 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES:  
 DISTANCE:

FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE

KEY REFERENCE(S)

LUND AND DIXON -- USER'S GUIDE TO THE PALOMAR SKY SURVEY, PASP, 85, 230, 1973.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

MAGNETIC TAPE, CREATED BY AN IBM 370 COMPUTER, CAN BE PROVIDED IN EITHER 7 OR 9-TRACK BCD, AT 556, 800 OR 1600 BPI, UNLABELED OR WITH STANDARD IBM LABELS.

REMARKS

POSITIONS ARE EITHER 1950 OR THE EPOCH OF THE INDIVIDUAL PALOMAR PRINT AREAS, BOTH ARE AVAILABLE. THE WHITEOAK EXTENSION IS INCLUDED. FOR EACH PRINT AREA THE FOLLOWING INFORMATION IS GIVEN: PSS NUMBER, NUMBER OF SAO STARS, CENTER POSITION, EPOCH OF EXPOSURE; BEGINNING, AVERAGE AND END EXPOSURE TIMES.

DISTRIBUTORS OF THE DATA SET

NAME-----  
 DR. ROBERT S. DIXON

ADDRESS-----  
 THE OHIO STATE UNIVERSITY  
 RADIO OBSERVATORY  
 2015 NEIL AVENUE  
 COLUMBUS, OH 43210

CONDITIONS AND COMMENTS  
 COST IS 95 DOLLARS PLUS OVER-SEAS  
 SHIPPING COST, IF APPLICABLE.

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 \* 010 \*  
 \*\*\*\*\*

DR. ROBERT S. DIXON  
 RADIO OBSERVATORY  
 OHIO STATE UNIVERSITY  
 2015 NEIL AVENUE  
 COLUMBUS, OH  
 43210

TELEPHONE: (614) 422-6789

\*\*\*\*\*

\* DATA FILE 010D \*\*\*\*\* BAKER'S FIRST GALAXY CATALOGUE \*\*\*\*\*

\*\*\*\*\*

925 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (2000)  
 925 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION: 1924 TO 1930

OBJECT CLASSES

GALAXIES

DATA CATEGORIES

OPTICAL ASTRONOMY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)	REDUCED	100	EPOCH 2000
OTHER (SEE COMMENTS)	TRANSCR (REMARKS)	REDUCED	100	ANGULAR DIAMETER AND POSITION ANGLE

IDENTIFICATION				
RUNNING NO. IN SOURCE CATALOGUE			100	

RADIATION				
MAGNITUDES, PHOTOGRAPHIC	TRANSCR (REMARKS)	REDUCED	100	
OTHER (SEE COMMENTS)	TRANSCR (REMARKS)	REDUCED	100	SURFACE MAGNITUDE

DERIVED QUANTITIES				
OTHER (SEE COMMENTS)				CLASSIFICATION

RANGE OF COVERAGE				
RIGHT ASCENSION:	3 TO 04 HOURS			GALACTIC LATITUDE:
DECLINATION:	-33 TO -20 DEGREES			GALACTIC LONGITUDE:
SPECTRAL TYPES:				MAGNITUDES:
OTHER:				DISTANCE:

FORM(S) OF COMPILATION: 925 PUNCHED COMPUTER CARDS

KEY REFERENCE(S)  
 BAKER, R.H. - CATALOG OF 985 EXTRAGALACTIC NEBULAE IN A REGION IN FORNAX AND ERIDANUS, HARVARD ANNALS, 88, NO. 3, 1933.

DESCRIPTION OF MACHINE-READABLE DATA FORMS  
 NONE GIVEN

REMARKS  
 NGC/IC OBJECTS ARE OMITTED. TRANSCRIBED DATA ARE FROM THE ORIGINAL CATALOG. THE DISTRIBUTION CHARGES ARE BASED ON OUR ACTUAL COSTS FOR REPRODUCING THE DATA, SHIPPING, AND ADMINISTRATION. IN EXCEPTIONAL CASES, AND BASED ON A SHOWING OF NO FUNDS AVAILABLE FOR PURCHASE, WE WILL SEND THE DATA FREE OF CHARGE AS A GESTURE OF SCIENTIFIC GOOD WILL.

DISTRIBUTORS OF THE DATA SET  
 NAME-----

DR. ROBERT S. DIXON

-----ADDRESS-----  
 RADIO OBSERVATORY  
 OHIO STATE UNIVERSITY  
 2015 NEIL AVENUE  
 COLUMBUS, OH 43210

-----CONDITIONS AND COMMENTS-----  
 THE COST IS 10 DOLLARS

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\* 010 \*  
\*\*\*\*\*

DR. ROBERT S. DIXON  
RADIO OBSERVATORY  
OHIO STATE UNIVERSITY  
2015 NEIL AVENUE  
COLUMBUS, OH  
43210

TELEPHONE: (614) 422-6789

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\* DATA FILE 010E \*\*\*\*\* AMES CATALOGUE OF GALAXIES \*\*\*\*\*

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2156 ENTRIES 100% COMPLETE  
2156 OBJECTS 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (2000)  
DATES OF OBSERVATION: 1904 TO 1926

OBJECT CLASSES

-----  
GALAXIES

DATA CATEGORIES

-----  
OPTICAL ASTRONOMY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)	REDUCED	100	EPOCH 2000
OTHER (SEE COMMENTS)	TRANSCR (REMARKS)	REDUCED	100	ANGULAR DIAMETER AND POSITION ANGLE

IDENTIFICATION  
RUNNING NO. IN SOURCE CATALOGUE

100

RADIATION  
MAGNITUDES, PHOTOGRAPHIC  
OTHER (SEE COMMENTS)

TRANSCR (REMARKS) REDUCED  
TRANSCR (REMARKS) REDUCED

100  
100

SURFACE MAGNITUDE

DERIVED QUANTITIES  
OTHER (SEE COMMENTS)

CLASSIFICATION

RANGE OF COVERAGE

RIGHT ASCENSION: 12 TO 13 HOURS  
DECLINATION: +05 TO +19 DEGREES  
SPECTRAL TYPES:  
OTHER:

GALACTIC LATITUDE:  
GALACTIC LONGITUDE:  
MAGNITUDES:  
DISTANCE:

FORM(S) OF COMPILATION: 2156 PUNCHED COMPUTER CARDS

KEY REFERENCE(S)

AMES, A. - CATALOGUE OF 2778 NEBULAE, INCLUDING THE COMA-VIRGO GROUP, HARVARD ANNALS, 88, NO. 1, 1932.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

NONE GIVEN

REMARKS

NGC/IC OBJECTS ARE OMITTED. THE TRANSCRIBED DATA ARE FROM THE ORIGINAL CATALOG. THE DISTRIBUTION CHARGES ARE BASED ON OUR ACTUAL COST FOR REPRODUCING THE DATA, SHIPPING, AND ADMINISTRATION. IN EXCEPTIONAL CASES, AND BASED ON A SHOWING OF NO FUNDS AVAILABLE FOR PURCHASE, WE WILL SEND THE DATA FREE OF CHARGE AS A GESTURE OF SCIENTIFIC GOOD WILL.

DISTRIBUTORS OF THE DATA SET

NAME-----  
DR. ROBERT S. DIXON

ADDRESS-----  
RADIO OBSERVATORY  
OHIO STATE UNIVERSITY  
2015 NEIL AVENUE  
COLUMBUS, OH 43210

CONDITIONS AND COMMENTS  
THE COST IS 30 DOLLARS

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\* 010 \*  
\*\*\*\*\*

DR. ROBERT S. DIXON  
RADIO OBSERVATORY  
OHIO STATE UNIVERSITY  
2015 NEIL AVENUE  
COLUMBUS, OH  
43210

TELEPHONE: (614) 422-6789

\*\*\*\*\*  
\* DATA FILE 010F \*\*\*\*\* OHIO RADIO SOURCE SURVEY \*\*\*\*\*  
\*\*\*\*\*

20000 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
20000 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION: 1963 TO 1975

OBJECT CLASSES		DATA CATEGORIES		
RADIO SOURCES		RADIO ASTRONOMY		
DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA RIGHT ASCENSION, DECLINATION	ORIGINAL	REDUCED	100	EPOCH 1950
IDENTIFICATION RUNNING NO. IN SOURCE CATALOGUE			100	OHIO NAME
RADIATION FLUX	ORIGINAL	REDUCED	100	AS MEASURED AT 1415 MHZ
RANGE OF COVERAGE RIGHT ASCENSION: 0 TO 24 HOURS DECLINATION: -36 TO +63 DEGREES SPECTRAL TYPES: OTHER:		GALACTIC LATITUDE: GALACTIC LONGITUDE: MAGNITUDES: DISTANCE:		
FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE COMPUTER PRINTOUT 9 BOUND BOOKS				
KEY REFERENCE(S) RINSLAND, C.F., R.S. DIXON, D. GEARHART, AND J.D. KRAUS, ASTRONOM. J., 79, 1129-1210, NOV. 1974. RINSLAND, C.F., R.S. DIXON, AND J.D. KRAUS - ASTRONOM. J., 80, NO. 10, 759-770, OCT. 1975.				
DESCRIPTION OF MACHINE-READABLE DATA FORMS MAGNETIC TAPE, CREATED BY A IBM 370 COMPUTER, CAN BE PROVIDED IN EITHER 7 OR 9 TRACK, BCD, AT 556, 800 OR 1600 BPI, UNLABELED OR WITH STANDARD IBM LABELS.				
REMARKS NONE GIVEN				
DISTRIBUTORS OF THE DATA SET				
NAME		ADDRESS		CONDITIONS AND COMMENTS
DR. ROBERT S. DIXON		RADIO OBSERVATORY OHIO STATE UNIVERSITY 2015 NEIL AVENUE COLUMBUS, OHIO 43210		THE COST IS 95 DOLLARS, PLUS OVERSEAS SHIPPING COSTS, IF APPLICABLE. COMPUTER PRINTOUT IS AVAILABLE FOR 75 DOLLARS.

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 \* 010 \*  
 \*\*\*\*\*

DR. ROBERT S. DIXON  
 RADIO OBSERVATORY  
 OHIO STATE UNIVERSITY  
 2015 NEIL AVENUE  
 COLUMBUS, OH  
 43210

TELEPHONE: (614) 422-6789

\*\*\*\*\*

\* DATA FILE 010G \*\*\*\*\* MASTER LIST OF RADIO SOURCES \*\*\*\*\*

\*\*\*\*\*

80000 ENTRIES 100% COMPLETE  
 40000 OBJECTS 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 DATES OF OBSERVATION: 1950 TO 1975

OBJECT CLASSES

PULSARS  
 RADIO SOURCES

DATA CATEGORIES

CROSS INDEX  
 RADIO ASTRONOMY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)	REDUCED	100	EPOCH 1950
IDENTIFICATION OTHER IDENTIFICATION NUMBERS			100	
RADIATION FLUX	TRANSCR (REMARKS)	REDUCED	100	
OTHER (SEE COMMENTS)	TRANSCR (REMARKS)	REDUCED	100	FREQUENCY AT WHICH FLUX WAS MEASURED

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE: -90 TO +90 DEGREES  
 GALACTIC LONGITUDE: 0 TO 360 DEGREES  
 MAGNITUDES:  
 DISTANCE:

FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE  
 COMPUTER PRINTOUT

KEY REFERENCE(S)

DIXON, R.S. - MASTER LIST OF RADIO SOURCES, ASTROPHYS. J. SUPPL., NO. 180, JULY 1970.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

MAGNETIC TAPE, CREATED BY AN IBM 370 COMPUTER, CAN BE PROVIDED IN EITHER 7 OR 9 TRACK, BCD, AT 556,800 OR 1600 BPI, UNLABELED OR WITH STANDARD IBM LABELS

REMARKS

THIS IS A COMPILATION OF ALL KNOWN CATALOGS OF RADIO SOURCES. THE DATA ARE IN THE SAME FORM AS THE ORIGINAL CATALOGS, EXCEPT FOR CONVERSION TO A COMMON FORMAT AND EPOCH.

DISTRIBUTORS OF THE DATA SET

NAME  
 DR. ROBERT S. DIXON

ADDRESS  
 RADIO OBSERVATORY  
 OHIO STATE UNIVERSITY  
 2015 NEIL AVENUE  
 COLUMBUS, OH 43210

CONDITIONS AND COMMENTS  
 THE COST IS 95 DOLLARS, PLUS OVERSEAS  
 SHIPPING COSTS, IF APPLICABLE. COMPUTER  
 PRINTOUT IS AVAILABLE FOR 75 DOLLARS.

\*\*\*\*\*  
 \* 010 \*  
 \*\*\*\*\*

DR. ROBERT S. DIXON  
 RADIO OBSERVATORY  
 OHIO STATE UNIVERSITY  
 2015 NEIL AVENUE  
 COLUMBUS, OH  
 43210

TELEPHONE: (614) 422-6789

\*\*\*\*\*

\* DATA FILE 010H \*\*\*\*\* VORONTSOV-VELYAMINOV GALAXY CATALOGUE (MCG) \*\*\*\*\*

\*\*\*\*\*

28904 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 28904 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION:

OBJECT CLASSES		DATA CATEGORIES			
GALAXIES		OPTICAL ASTRONOMY			
DATA ITEMS APPEARING IN THE FILE		TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA					
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)	REDUCED	100	EPOCH 1950	
OTHER (SEE COMMENTS)	TRANSCR (REMARKS)	REDUCED	100	ANGULAR DIAMETERS OF 4 KINDS	
IDENTIFICATION					
RUNNING NO. IN SOURCE CATALOGUE			100		
NGC, IC CATALOGUE NUMBER			10		
RADIATION					
MAGNITUDES, PHOTOGRAPHIC	TRANSCR (REMARKS)	REDUCED	100		
OTHER (SEE COMMENTS)	TRANSCR (REMARKS)	REDUCED	100	INTENSITIES OF 2 KINDS	
OTHER					
OTHER (SEE COMMENTS)	TRANSCR (REMARKS)	REDUCED	100	INCLINATION	
RANGE OF COVERAGE					
RIGHT ASCENSION: 0 TO 24 HOURS		GALACTIC LATITUDE:			
DECLINATION:		GALACTIC LONGITUDE:			
SPECTRAL TYPES:		MAGNITUDES:			
OTHER:		DISTANCE:			

FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE  
 COMPUTER PRINTOUT

KEY REFERENCE(S)  
 VORONTSOV-VELYAMINOV - MORPHOLOGICAL CATALOG OF GALAXIES.

DESCRIPTION OF MACHINE-READABLE DATA FORMS  
 MAGNETIC TAPE, CREATED BY AN IBM 370 COMPUTER, CAN BE PROVIDED IN EITHER 7 OR 9 TRACK, BCD, AT 556,800 OR 1600 BP1, UNLABELED OR WITH STANDARD IBM LABELS

REMARKS  
 ALL DATA ITEMS ARE TRANSCRIBED FROM THE ORIGINAL CATALOGUE.

DISTRIBUTORS OF THE DATA SET

NAME-----  
 DR. ROBERT S. DIXON

-----ADDRESS-----  
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 OHIO STATE UNIVERSITY  
 2015 NEIL AVENUE  
 COLUMBUS, OH 43210

-----CONDITIONS AND COMMENTS-----  
 THE COST IS 95 DOLLARS, PLUS OVERSEAS  
 SHIPPING COSTS, IF APPLICABLE. COMPUTER  
 PRINTOUT IS AVAILABLE FOR 75 DOLLARS.

\*\*\*\*\*  
 \* 010 \*  
 \*\*\*\*\*

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 COLUMBUS, OH  
 43210

TELEPHONE: (614) 422-6789

\*\*\*\*\*  
 \* DATA FILE 0101 \*  
 \*\*\*\*\*

\*\*\*\*\* MASTER LIST OF NON-STELLAR OPTICAL OBJECTS \*\*\*\*\*

181330 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1900)  
 100000 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION: 1700 TO 1975

OBJECT CLASSES

DATA CATEGORIES

ASSOCIATIONS  
 BLUE OBJECTS  
 DARK NEBULAE  
 CLUSTERS OF GALAXIES  
 EMISSION NEBULAE  
 GALAXIES  
 GLOBULAR CLUSTERS  
 HERBIG-HARO OBJECTS  
 H II REGIONS  
 MARKARIAN GALAXIES  
 MULTIPLE GALAXIES  
 OPEN CLUSTERS  
 PLANETARY NEBULAE  
 QUASARS  
 REFLECTION NEBULAE  
 SEYFERT GALAXIES  
 STELLAR RINGS  
 STAR CLUSTERS  
 SUPERNOVA REMNANTS

CROSS INDEX  
 OPTICAL ASTRONOMY

DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
ITEM				
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)	REDUCED	100	EPOCH 1950
OTHER (SEE COMMENTS)	TRANSCR (REMARKS)	REDUCED	60	ANGULAR DIAMETER
IDENTIFICATION				
NGC, IC CATALOGUE NUMBER			5	
OTHER IDENTIFICATION NUMBERS			100	
GALAXY MEMBERSHIP	TRANSCR		1	
REMARKS	TRANSCR		100	TYPE OF OBJECT
RADIATION				
MAGNITUDES, PHOTOGRAPHIC	TRANSCR (REMARKS)	REDUCED	40	
MAGNITUDES, PHOTOELECTRIC	TRANSCR (REMARKS)	REDUCED	5	
MAGNITUDES, OTHER	TRANSCR (REMARKS)	REDUCED	5	
RANGE OF COVERAGE				
RIGHT ASCENSION: 0 TO 24 HOURS				GALACTIC LATITUDE: -90 TO +90 DEGREES
DECLINATION: -90 TO +90 DEGREES				GALACTIC LONGITUDE: 0 TO 360 DEGREES
SPECTRAL TYPES:				MAGNITUDES: 5.0 TO 23.0
OTHER:				DISTANCE:

FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE  
 2 BOUND BOOKS OR JOURNALS

KEY REFERENCE(S)  
 DIXON, R. S., AND A. SONNEBORN - MASTER LIST OF NONSTELLAR OPTICAL ASTRONOM. OBJECTS, OHIO STATE UNIV. PRESS, TO BE PUBLISHED.

DESCRIPTION OF MACHINE-READABLE DATA FORMS  
 MAGNETIC TAPE, CREATED BY AN IBM 370 COMPUTER, CAN BE PROVIDED IN EITHER 7 OR 9 TRACK, BCD, AT 556,800 OR 1600 BPI, UNLABELED OR WITH STANDARD IBM LABELS

REMARKS  
 THIS IS A COMPILATION OF ALL KNOWN CATALOGS OF NON-STELLAR OPTICAL OBJECTS. THE DATA ARE IN THE SAME FORM AS THE ORIGINAL CATALOGS, EXCEPT FOR CONVERSION TO A COMMON FORMAT AND EPOCH.

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. ROBERT S. DIXON	RADIO OBSERVATORY OHIO STATE UNIVERSITY 2015 NEIL AVENUE COLUMBUS, OH 43210	THE COST IS 95 DOLLARS, PLUS OVERSEAS SHIPPING COSTS, IF APPLICABLE.



\*\*\*\*\*  
 \* 010 \*  
 \*\*\*\*\*

DR. ROBERT S. DIXON  
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 OHIO STATE UNIVERSITY  
 2015 NEIL AVENUE  
 COLUMBUS, OH  
 43210

TELEPHONE: (614) 422-6789

\*\*\*\*\*  
 \*  
 \* DATA FILE 010J \*  
 \*\*\*\*\*

\*\*\*\*\* NILSON UPPSALA GALAXY CATALOGUE (UGC) \*\*\*\*\*

12943 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 12943 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION:

OBJECT CLASSES		DATA CATEGORIES		
GALAXIES		CROSS INDEX		
		OPTICAL ASTRONOMY		
DATA ITEMS APPEARING IN THE FILE				
ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION OTHER (SEE COMMENTS)	TRANSCR (REMARKS)	REDUCED	100 100	EPOCH 1950 ANGULAR DIAMETERS OF 4 KINDS
IDENTIFICATION				
RUNNING NO. IN SOURCE CATALOGUE OTHER IDENTIFICATION NUMBERS			100 100	MCG NUMBERS
RADIATION				
MAGNITUDES, PHOTOGRAPHIC	TRANSCR (REMARKS)	REDUCED	100	
DERIVED QUANTITIES				
OTHER (SEE COMMENTS)	TRANSCR (REMARKS)	REDUCED	95	HUBBLE CLASSIFICATION
OTHER				
RADIAL VELOCITY OTHER (SEE COMMENTS)	TRANSCR (REMARKS)	REDUCED	5	
	TRANSCR (REMARKS)	REDUCED	100	INCLINATION
RANGE OF COVERAGE				
RIGHT ASCENSION:	0 TO 24 HOURS			GALACTIC LATITUDE:
DECLINATION:	-3 TO +90 DEGREES			GALACTIC LONGITUDE:
SPECTRAL TYPES:				MAGNITUDES:
OTHER:				DISTANCE:
FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE COMPUTER PRINTOUT				
KEY REFERENCE(S)				
NILSON, P. - UPPSALA GENERAL CATALOG OF GALAXIES, NOVA ACTA REGIAE SOCIETATIS SCIENTIARUM UPSALIENSIS, SER. V: A, VOL. 1, 1973.				
DESCRIPTION OF MACHINE-READABLE DATA FORMS				
MAGNETIC TAPE, CREATED BY AN IBM 370 COMPUTER, CAN BE PROVIDED IN EITHER 7 OR 9 TRACK, BCD, AT 556,800 OR 1600 BPI, UNLABELED OR WITH STANDARD IBM LABELS				
REMARKS				
THE GALAXY CLASSIFICATIONS INCLUDE BOTH UPPER AND LOWER CASE LETTERS. THE TRANSCRIBED DATA ARE FROM THE ORIGINAL CATALOG.				

## DISTRIBUTORS OF THE DATA SET

NAME-----  
 DR. ROBERT S. DIXON

ADDRESS-----  
 RADIO OBSERVATORY  
 OHIO STATE UNIVERSITY  
 2015 NEIL AVENUE  
 COLUMBUS, OH 43210

CONDITIONS AND COMMENTS  
 THE COST IS 95 DOLLARS, PLUS OVERSEAS  
 SHIPPING COSTS, IF APPLICABLE. COMPUTER  
 PRINTOUT IS AVAILABLE FOR 75 DOLLARS.

\*\*\*\*\*  
 \* 010 \*  
 \*\*\*\*\*

DR. ROBERT S. DIXON  
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 OHIO STATE UNIVERSITY  
 2015 NEIL AVENUE  
 COLUMBUS, OH  
 43210

TELEPHONE: (614) 422-6789

\*\*\*\*\*

\* DATA FILE 010K \*\*\*\*\* TONANTZINTLA NORTHERN HEMISPHERE BLUE STARS:PART 2 \*\*\*\*\*

\*\*\*\*\*  
 1589 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 1589 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION:

OBJECT CLASSES		DATA CATEGORIES		
BLUE OBJECTS		OPTICAL ASTRONOMY		
DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA RIGHT ASCENSION, DECLINATION GALACTIC COORDINATES	TRANSCR (REMARKS)	REDUCED	100	1950 SYSTEM 1
IDENTIFICATION RUNNING NO. IN SOURCE CATALOGUE			100	
RADIATION MAGNITUDES, VISUAL	TRANSCR (REMARKS)	REDUCED	100	
RANGE OF COVERAGE				
RIGHT ASCENSION:	0 TO 13 HOURS			GALACTIC LATITUDE:
DECLINATION:	20 TO 33 DEGREES			GALACTIC LONGITUDE:
SPECTRAL TYPES:				MAGNITUDES: 12.0 TO 17.0 (VISUAL OR PHOTOGRAPHIC)
OTHER:				DISTANCE:
FORM(S) OF COMPILATION: 1589 PUNCHED COMPUTER CARDS				
KEY REFERENCE(S) CHAVIRA,BOL. OBS. TONY TACUBAYA #18,P.3,1959.				
DESCRIPTION OF MACHINE-READABLE DATA FORMS DATA ON IBM PUNCHED CARDS.				
REMARKS				

## DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. ROBERT S. DIXON	THE OHIO STATE UNIVERSITY RADIO OBSERVATORY 2015 NEIL AVENUE COLUMBUS, OHIO 43210	

\*\*\*\*\*  
 \* 010 \*  
 \*\*\*\*\*

DR. ROBERT S. DIXON  
 RADIO OBSERVATORY  
 OHIO STATE UNIVERSITY  
 2015 NEIL AVENUE  
 COLUMBUS, OH  
 43210

TELEPHONE: (614) 422-6789

\*\*\*\*\*

\* DATA FILE 010L \*\*\*\*\* TONANTZINTLA SOUTHERN HEMISPHERE BLUE STARS \*\*\*\*\*

\*\*\*\*\* 418 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 418 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION:

OBJECT CLASSES

BLUE OBJECTS

DATA CATEGORIES

OPTICAL ASTRONOMY

DATA ITEMS APPEARING IN THE FILE

ITEM

TYPE (AND  
 MAJOR SOURCE)

NATURE  
 OF DATA

APPROX.  
 % WITH  
 THIS  
 GIVEN

COMMENTS AND OTHER INFORMATION

POSITIONAL DATA

RIGHT ASCENSION, DECLINATION  
 GALACTIC COORDINATES

TRANSCR (REMARKS)

REDUCED

100

1950  
 SYSTEM 1

IDENTIFICATION

RUNNING NO. IN SOURCE CATALOGUE

100

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 5 HOURS  
 DECLINATION: -21 TO -34 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES: 12.0 TO 17.0 (VISUAL OR PHOTOGRAPHIC)  
 DISTANCE:

FORM(S) OF COMPILATION: 418 PUNCHED COMPUTER CARDS

KEY REFERENCE(S)

CHAVIRA, E. BOL. OBS. TONANTZINTLA Y TACUBAYA #17, P15, 1958

DESCRIPTION OF MACHINE-READABLE DATA FORMS

NONE GIVEN

REMARKS

NONE GIVEN

DISTRIBUTORS OF THE DATA SET

NAME

ADDRESS

CONDITIONS AND COMMENTS

DR. ROBERT S. DIXON

THE OHIO STATE UNIVERSITY  
 RADIO OBSERVATORY  
 2015 NEIL AVENUE  
 COLUMBUS, OHIO 43210

\*\*\*\*\*  
 \* 010 \*  
 \*\*\*\*\*

DR. ROBERT S. DIXON  
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 OHIO STATE UNIVERSITY  
 2015 NEIL AVENUE  
 COLUMBUS, OH  
 43210

TELEPHONE: (614) 422-6789

\*\*\*\*\*

\* DATA FILE 010M \* \*\*\*\*\* PEREK AND KOHOUTEK PLANETARY NEBULAE \*\*\*\*\*

\*\*\*\*\*

1036 ENTRIES  
 1036 OBJECTS

100% COMPLETE  
 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 DATES OF OBSERVATION:

OBJECT CLASSES		DATA CATEGORIES			
PLANETARY NEBULAE		OPTICAL ASTRONOMY			
DATA ITEMS APPEARING IN THE FILE		TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA					
RIGHT ASCENSION, DECLINATION		TRANSCR (REMARKS)	REDUCED	100	1950
RADIATION					
MAGNITUDES, PHOTOGRAPHIC		TRANSCR (REMARKS)	REDUCED	100	
RANGE OF COVERAGE					
RIGHT ASCENSION:		0 TO 24 HOURS		GALACTIC LATITUDE:	
DECLINATION:		-90 TO +90 DEGREES		GALACTIC LONGITUDE:	
SPECTRAL TYPES:				MAGNITUDES:	
OTHER:				DISTANCE:	
				TO 18.9 (VISUAL OR PHOTOGRAPHIC)	

FORM(S) OF COMPILATION: 1036 PUNCHED COMPUTER CARDS

KEY REFERENCE(S)

PEREK AND KOHOUTEK (1967) PLANETARY NEBULAE

DESCRIPTION OF MACHINE-READABLE DATA FORMS  
 DATA ON IBM PUNCHED CARDS

REMARKS

NONE GIVEN

DISTRIBUTORS OF THE DATA SET

NAME-----  
 DR. ROBERT S. DIXON

ADDRESS-----  
 THE OHIO STATE UNIVERSITY  
 RADIO OBSERVATORY  
 2015 NEIL AVENUE  
 COLUMBUS, OHIO 43210

-----CONDITIONS AND COMMENTS

\*\*\*\*\*  
 \* 010 \*  
 \*\*\*\*\*

DR. ROBERT S. DIXON  
 RADIO OBSERVATORY  
 OHIO STATE UNIVERSITY  
 2015 NEIL AVENUE  
 COLUMBUS, OH  
 43210

TELEPHONE: (614) 422-6789

\*\*\*\*\*

\* DATA FILE 010N \*\*\*\*\* MARKARIAN GALAXIES \*\*\*\*\*

\*\*\*\*\*

700 ENTRIES  
 700 OBJECTS

100% COMPLETE  
 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 DATES OF OBSERVATION:

OBJECT CLASSES  
 -----  
 GALAXIES

DATA CATEGORIES  
 -----  
 OPTICAL ASTRONOMY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)	REDUCED	100	1950
IDENTIFICATION RUNNING NO. IN SOURCE CATALOGUE			100	
RADIATION MAGNITUDES, PHOTOGRAPHIC	TRANSCR (REMARKS)	REDUCED	100	
RANGE OF COVERAGE RIGHT ASCENSION: 0 TO 24 HOURS DECLINATION: -11 TO +90 DEGREES SPECTRAL TYPES: OTHER:				GALACTIC LATITUDE: GALACTIC LONGITUDE: MAGNITUDES: DISTANCE: TO 17.5 (VISUAL OR PHOTOGRAPHIC)

FORM(S) OF COMPILATION: 700 PUNCHED COMPUTER CARDS

KEY REFERENCE(S)

MARKARIAN, B.E. ASTROFIZIKA, VOL 3, PP55-68, 1967

DESCRIPTION OF MACHINE-READABLE DATA FORMS  
 DATA ON IBM PUNCHED CARDS

REMARKS

NONE GIVEN

DISTRIBUTORS OF THE DATA SET

NAME-----  
 DR. ROBERT S. DIXON

-----ADDRESS-----  
 THE OHIO STATE UNIVERSITY  
 RADIO OBSERVATORY  
 2015 NEIL AVENUE  
 COLUMBUS, OHIO 43210

-----CONDITIONS AND COMMENTS

\*\*\*\*\*  
 \* 010 \*  
 \*\*\*\*\*

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 OHIO STATE UNIVERSITY  
 2015 NEIL AVENUE  
 COLUMBUS, OH  
 43210

TELEPHONE: (614) 422-6789

\*\*\*\*\*  
 \* DATA FILE 0100 \* \*\*\*\*\* VORONTSOV - VELIAMINOV INTERACTING GALAXIES \*\*\*\*\*  
 \*\*\*\*\*

922 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING:  
 922 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION:

OBJECT CLASSES		DATA CATEGORIES			
GALAXIES		OPTICAL ASTRONOMY			
DATA ITEMS APPEARING IN THE FILE		APPROX. % WITH THIS GIVEN			
ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA		COMMENTS AND OTHER INFORMATION	
POSITIONAL DATA					
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)	REDUCED	100	1950	
OTHER (SEE COMMENTS)	TRANSCR (REMARKS)	REDUCED	100	ANGULAR DIAMETERS	
IDENTIFICATION					
RUNNING NO. IN SOURCE CATALOGUE			100		
OTHER IDENTIFICATION NUMBERS			100		

RADIATION  
 MAGNITUDES, VISUAL

RANGE OF COVERAGE  
 RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES: +8.0 TO 20.0 (VISUAL OR PHOTOGRAPHIC)  
 DISTANCE:

FORM(S) OF COMPILATION: 922 PUNCHED COMPUTER CARDS

KEY REFERENCE(S)  
 VORONTSOV-VELIAMINOV: ATLAS AND CATALOG OF INTERACTING GALAXIES (MOSCOW STATE UNIVERSITY, 1959).

DESCRIPTION OF MACHINE-READABLE DATA FORMS

REMARKS  
 NONE GIVEN

DISTRIBUTORS OF THE DATA SET		CONDITIONS AND COMMENTS	
NAME	ADDRESS		
DR. ROBERT S. DIXON	THE OHIO STATE UNIVERSITY RADIO OBSERVATORY 2015 NEIL AVENUE COLUMBUS, OHIO 43210		

\*\*\*\*\*  
 \* 010 \*  
 \*\*\*\*\*

DR. ROBERT S. DIXON  
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 OHIO STATE UNIVERSITY  
 2015 NEIL AVENUE  
 COLUMBUS, OH  
 43210

TELEPHONE: (614) 422-6789

\*\*\*\*\*  
 \*  
 \* DATA FILE 010P \*\*\*\*\*  
 \*  
 \*\*\*\*\*

ISSERSTEDT STELLAR RINGS \*\*\*\*\*

1002 ENTRIES 100% COMPLETE  
 1002 OBJECTS 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 DATES OF OBSERVATION:

OBJECT CLASSES

DATA CATEGORIES

OPTICAL ASTRONOMY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)	REDUCED	100	EPOCH 1950
GALACTIC COORDINATES			100	SYSTEM II

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -33 TO +67 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES:  
 DISTANCE:

KEY REFERENCE(S)

DESCRIPTION OF MACHINE-READABLE DATA FORMS

REMARKS

DISTRIBUTORS OF THE DATA SET

NAME-----  
 DR. ROBERT S. DIXON

ADDRESS-----  
 THE OHIO STATE UNIVERSITY  
 RADIO OBSERVATORY  
 2015 NEIL AVENUE  
 COLUMBUS, OHIO 43210

-----CONDITIONS AND COMMENTS

\*\*\*\*\*  
\* 011 \*  
\*\*\*\*\*

DR. DAVID W. DUNHAM  
P.O. BOX 488  
SILVER SPRING, MD  
20907

TELEPHONE: (301) 589-1545

\*\*\*\*\*  
\* DATA FILE 011A \*\*\*\*\*  
\*\*\*\*\*

2800 ENTRIES  
2500 OBJECTS

90% COMPLETE  
90% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
DATES OF OBSERVATION: 1800 TO 1977

# OBJECT CLASSES

ALGOL SYSTEMS  
BINARIES  
CONTACT BINARIES  
ECLIPSING VARIABLES  
MULTIPLE STARS  
SPECTROSCOPIC BINARIES  
CLOSE BINARIES

# DATA CATEGORIES

ASTROMETRY  
CROSS INDEX  
OPTICAL ASTRONOMY  
PHOTOMETRY

DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
ITEM				
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)	REDUCED	80	EPOCH 1900
IDENTIFICATION				
DM CATALOGUE NUMBER			90	BD COD
SAO CATALOGUE NUMBER			100	
OTHER IDENTIFICATION NUMBERS			35	ZODIACAL CATALOG, ROBERTSON 1941
NO. OF OBS. PER OBJECT OF MEAS.			80	
RADIATION				
MAGNITUDES, VISUAL	TRANSCR (REMARKS)	REDUCED	100	ALSO ORIGINAL
MAGNITUDES, PHOTOELECTRIC	ORIGINAL (REMARKS)	REDUCED	3	
VARIABLE STARS				
MAXIMUM AND MINIMUM MAGNITUDES	TRANSCR (REMARKS)	AVERAGED	1	
MULTIPLE SYSTEMS				
TYPE OF MULTIPLICITY	TRANSCR (REMARKS)	REDUCED	100	ALSO ORIGINAL
MULTIPLICITY OF SYSTEM	TRANSCR (REMARKS)	REDUCED	100	ALSO ORIGINAL
MAX/MIN MAGNITUDES OF SYSTEM	TRANSCR (REMARKS)	REDUCED	99	I.D.S. DOESN'T GIVE MAG. OF SOME SECONDARIES
ORBITAL PARAMETERS	TRANSCR (REMARKS)	AVERAGED	2	
SEPARATION (VISUAL BINARIES)	TRANSCR (REMARKS)	REDUCED	100	ESTIMATES ALSO MADE FOR NON-VISUAL PAIRS
OTHER (SEE COMMENTS)	TRANSCR (REMARKS)	REDUCED	95	POSITION ANGLE, P. A. AND SEPARATION RATES

# RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
DECLINATION: -30 TO +30 DEGREES  
SPECTRAL TYPES:  
OTHER: SEE REMARKS

GALACTIC LATITUDE:  
GALACTIC LONGITUDE:  
MAGNITUDES: 1.0 TO 10.0 (VISUAL OR PHOTOGRAPHIC)  
DISTANCE:

FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE  
60 PAGES OF COMPUTER PRINTOUT

# KEY REFERENCE(S)

NONE YET; THESE DATA ARE COMPILED FROM SEVERAL SOURCES, AND IN ADDITION INCLUDE SOME UNPUBLISHED OBSERVATIONS.

# DESCRIPTION OF MACHINE-READABLE DATA FORMS

THESE DATA ARE AVAILABLE ON 7 OR 9-TRACK, BCD, MAGNETIC TAPES, WRITTEN AT 556, 800, OR 1600 BPI.

# REMARKS

OTHER RANGES OR RESTRICTIONS OF COVERAGE INCLUDE THE ECLIPTIC LATITUDE EQUAL TO -6 DEGREES, 41 MINUTES TO +6 DEGREES, 41 MINUTES, THE POSSIBLE ZONE OCCULTED BY THE MOON. THE POSITIONAL DATA ARE TRANSCRIBED FROM THE LICK OBSERVATORY I.D.S., ALTHOUGH WE PLAN TO ALSO USE SAO DATA. SEPARATION, MAGNITUDE AND POSITION ANGLE SOURCES INCLUDE I.D.S., AND NUMEROUS OTHER PUBLICATION AND OBSERVATIONS. THE MAGNITUDE SOURCE FOR VARIABLE STARS IS KUKARKIN'S CATALOGUE.

# DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. DAVID W. DUNHAM	P.O. BOX 488 SILVER SPRING, MD 20907	A BLANK MAGNETIC TAPE (PREFERABLY A MINITAPE) MUST BE SUPPLIED.
DR. THOMAS C. VAN FLANDERN	US NAVAL OBSERVATORY WASHINGTON, DC 20390	THREE BLANK MAGNETIC TAPES MUST BE SUPPLIED.



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 \* 011 \*  
 \*\*\*\*\*

DR. DAVID W. DUNHAM  
 P.O. BOX 488  
 SILVER SPRING, MD  
 20907

TELEPHONE: (301) 589-1545

\*\*\*\*\*

\* DATA FILE 011B \*\*\*\*\* ASTROGRAPHIC CATALOGUE \*\*\*\*\*

\*\*\*\*\* 1700000 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING:  
 700000 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION: 1890 TO 1940

OBJECT CLASSES

DATA CATEGORIES

ASTROMETRY  
 CROSS INDEX

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
<b>POSITIONAL DATA</b>				
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)	REDUCED	100	EPOCH 1950
OTHER (SEE COMMENTS)	TRANSCR (REMARKS)	RAW	100	EPOCH OF PLATE
<b>IDENTIFICATION</b>				
RUNNING NO. IN SOURCE CATALOGUE			100	
OTHER IDENTIFICATION NUMBERS			15	
<b>RADIATION</b>				
MAGNITUDES, PHOTOGRAPHIC	TRANSCR (REMARKS)	REDUCED	100	

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: +4 TO +32 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES: 1.0 TO 13.0 (VISUAL OR PHOTOGRAPHIC)  
 DISTANCE:

FORM(S) OF COMPILATION: 4 DIGITAL MAGNETIC TAPES  
 28 BOUND BOOKS OR JOURNALS

KEY REFERENCE(S)

EICHORN, H. - ASTRONOMY OF STAR POSITIONS. VALBOUSQUET, A. - BULL. CDS STRASBOURG, NO. 13, P. 2 (1977)

DESCRIPTION OF MACHINE-READABLE DATA FORMS

THIS CATALOGUE IS AVAILABLE ON FOUR 9-TRACK, BCD MAGNETIC TAPES WRITTEN AT 1600 BP1.

REMARKS

ALL DATA ARE FROM THE ASTROGRAPHIC CATALOGUES, REDUCED TO EQUINOX 1950 RIGHT ASCENSION AND DECLINATION AT STRASBOURG OBSERVATORY USING AGK 2/3 DATA. TAPES WERE OBTAINED FROM THE CENTRE DE DONNEES STELLAIRES.

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. DAVID W. DUNHAM	P.O. BOX 488 SILVER SPRING, MD 20907	SUPPLY 4 BLANK MAGNETIC TAPES AND A NOMINAL FEE FOR HANDLING
DR. THOMAS C. VAN FLANDERN	U. S. NAVAL OBSERVATORY WASHINGTON, DC 20390	SUPPLY 12 BLANK MAGNETIC TAPES
DR. C. JASCHEK	CENTRE DE DONNEES STELLAIRES OBSERVATOIRE DE STRASBOURG 11, RUE DE L'UNIVERSITE 67000 STRASBOURG FRANCE	PAYMENT OF FF1120 AND TAPES TO BE RETURNED
DR. WAYNE H. WARREN JR.	NATIONAL SPACE SCIENCE DATA CENTER CODE 601 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SUPPLY 4 BLANK TAPES

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 \* 011 \*  
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DR. DAVID W. DUNHAM  
 P.O. BOX 488  
 SILVER SPRING, MD  
 20907

TELEPHONE: (301) 589-1545

\*\*\*\*\*

\* DATA FILE 011C \*\*\*\*\* M24 STAR FIELD \*\*\*\*\*

\*\*\*\*\*

127 ENTRIES 100% COMPLETE  
 127 OBJECTS 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 DATES OF OBSERVATION: 1976 TO 1976

OBJECT CLASSES

DATA CATEGORIES

DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
ITEM				
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	ORIGINAL	REDUCED	100	EPOCH 1950 (ACCURATE TO ABOUT + OR - 1.5 ARSEC)
IDENTIFICATION				
RUNNING NO. IN SOURCE CATALOGUE			100	
HD CATALOGUE NUMBER			95	NOT IN MACHINE-READABLE FORM
DM CATALOGUE NUMBER			18	BD
SAO CATALOGUE NUMBER			14	
OTHER IDENTIFICATION NUMBERS			3	ZODIACAL CATALOG (ROBERTSON)
CHARTS AVAILABLE			100	
RADIATION				
MAGNITUDES, VISUAL	TRANSCR (SAO)	REDUCED	18	ALSO FROM DM
MAGNITUDES, PHOTOGRAPHIC	ORIGINAL	REDUCED	92	
SPECTRAL CLASS	TRANSCR (HD)	REDUCED	95	

RANGE OF COVERAGE

RIGHT ASCENSION: 18 TO 19 HOURS  
 DECLINATION: -19 TO -18 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES: 6.1 TO 10.0 (VISUAL OR PHOTOGRAPHIC)  
 DISTANCE:

FORM(S) OF COMPILATION: 127 PUNCHED COMPUTER CARDS  
 2 PAGES OF COMPUTER PRINTOUT

KEY REFERENCE(S)  
 NONE GIVEN

DESCRIPTION OF MACHINE-READABLE DATA FORMS  
 NONE GIVEN

REMARKS  
 NONE GIVEN

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. DAVID W. DUNHAM	P.O. BOX 488 SILVER SPRING, MD 20907	NONE
DR. THOMAS C. VAN FLANDERN	US NAVAL OBSERVATORY WASHINGTON, DC 20390	381 COMPUTER CARDS

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\* 012 \*  
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MR. CARLTON W. DUKE, JR.  
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USN SURFACE WEAPONS CENTER  
DAHLGREN LABORATORY  
DAHLGREN, VA  
22448

TELEPHONE: (703) 663-8649

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\* DATA FILE 012A \*\*\*\*\* NSWC GENERAL CATALOGUE \*\*\*\*\*

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19045 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: HD NUMBER  
19045 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION:

OBJECT CLASSES

DATA CATEGORIES

CROSS INDEX  
PARALLAXES  
PHOTOMETRY  
POSITIONAL ASTRONOMY  
PROPER MOTIONS

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
<b>POSITIONAL DATA</b>				
RIGHT ASCENSION, DECLINATION	TRANSCR (SAO)		100	EPOCH 1950
ANNUAL VARIATION	TRANSCR (REMARKS)		94	GC, FK4
SECULAR VARIATION	TRANSCR (REMARKS)		94	GC, FK4
THIRD TERM	TRANSCR (REMARKS)		94	GC
PROPER MOTION (R.A., DEC.)	TRANSCR (SAO)		99	ERROR NOT SPECIFIED
PARALLAX, TRIGONOMETRIC	TRANSCR (REMARKS)		18	FK4, BSC
<b>IDENTIFICATION</b>				
HD CATALOGUE NUMBER			99	
DM CATALOGUE NUMBER			100	BD COD CPD
OTHER IDENTIFICATION NUMBERS				FK4, GC, AND HR
<b>RADIATION</b>				
PHOTOMETRIC SYSTEM(S)				UBV, U(CAPE) BV
MAGNITUDES, VISUAL	TRANSCR (SAO)		100	GC (MAX.+MIN. RANGE)
MAGNITUDES, PHOTOELECTRIC	TRANSCR (REMARKS)		49	USNO, MPE (MAX.+MIN. RANGE)
SPECTRAL CLASS	TRANSCR (SAO)		99	USNO, MPE
COLORS	TRANSCR (REMARKS)		49	USNO, MPE (MAX.+MIN. RANGE)

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
DECLINATION: -90 TO +90 DEGREES  
SPECTRAL TYPES:  
OTHER:

GALACTIC LATITUDE: -90 TO +90 DEGREES  
GALACTIC LONGITUDE: 0 TO 360 DEGREES  
MAGNITUDES: -1.6 TO 7.2 (VISUAL OR PHOTOGRAPHIC)  
DISTANCE:

FORM(S) OF COMPILATION: DIGITAL MAGNETIC TAPE

KEY REFERENCE(S)

STEIN, W.L., AND J.C. RUDISILL - NSWC GENERAL CATALOG, NSWC/DL TECH. REPT., NSWC/DL TR-3607, 1977.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

CDC-6700 DISK PACK (BCD) CAN BE WRITTEN TO MAGNETIC TAPE AT 200, 556 OR 800 BPI (7-TRACK) OR 800 BPI (9-TRACK). THE POSITION CATALOG IS 130 6-BIT CHARACTERS/LRU AND THE COLOR CATALOG IS 112 6-BIT CHARACTERS/LRU.

REMARKS

ANNUAL AND SECULAR VARIATIONS FROM GC AND FK4, THIRD TERM FROM GC, PARALLAX FROM FK4, BSC, UBV PE MAGNITUDES AND COLORS FROM USNO PE CATALOG AND MERILLIOD CATALOG. (NSWC=NAVAL SURFACE WEAPONS CENTER).

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. W. L. STEIN	CODE DK-51 USN SURFACE WEAPONS CENTER DAHLGREN LABORATORY DAHLGREN, VA 22448	
MR. J. C. RUDISILL	CODE DK-51 USN SURFACE WEAPONS CENTER DAHLGREN LABORATORY DAHLGREN, VA 22448	
MR. W. L. MURPHY	CODE DK-51 USN SURFACE WEAPONS CENTER DAHLGREN LABORATORY DAHLGREN, VA 22448	
MR. C. W. DUKE, JR.	CODE DK-51 USN SURFACE WEAPONS CENTER DAHLGREN LABORATORY DAHLGREN, VA 22448	

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 \* 013 \*  
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MR. S. ELVOVE  
 NAUTICAL ALMANAC OFFICE  
 USN OBSERVATORY  
 WASHINGTON, DC  
 20390

TELEPHONE: (202) 254-4542

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 \* DATA FILE 013A \*\*\*\*\*  
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33342 ENTRIES  
 33342 OBJECTS

100% COMPLETE  
 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 DATES OF OBSERVATION: 1909 TO 1918

OBJECT CLASSES

DATA CATEGORIES

ASTROMETRY  
 POSITIONAL ASTRONOMY  
 PROPER MOTIONS

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)	REDUCED	100	EPOCH 1950
ANNUAL VARIATION	TRANSCR	REDUCED		
SECULAR VARIATION	TRANSCR	REDUCED		
THIRD TERM	TRANSCR	REDUCED		
PROPER MOTION (R.A., DEC.)	TRANSCR	REDUCED		ERROR NOT SPECIFIED

IDENTIFICATION  
 OTHER IDENTIFICATION NUMBERS  
 REMARKS

RADIATION				
MAGNITUDES, OTHER	TRANSCR (REMARKS)	REDUCED		HARVARD SYSTEM, SOME PHOTOMETRIC
SPECTRAL CLASS	TRANSCR (HD)	REDUCED		

MULTIPLE SYSTEMS				
MAX/MIN MAGNITUDES OF SYSTEM	TRANSCR (REMARKS)	REDUCED		

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES: TO 7.0 (VISUAL OR PHOTOGRAPHIC)  
 DISTANCE:

FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE

KEY REFERENCE(S)  
 BOSS - ALBANY GENERAL CATALOG.

DESCRIPTION OF MACHINE-READABLE DATA FORMS  
 THESE DATA ARE AVAILABLE ON 9-TRACK, BINARY MAGNETIC TAPES WRITTEN AT 800 OR 1600 BPI AND 7-TRACK,  
 BCD MAGNETIC TAPES WRITTEN AT 556 OR 800 BPI.

REMARKS

THE TRANSCRIBED DATA ARE TAKEN FROM MANY CATALOGUES. MAGNITUDES ARE COMPLETE TO THE 7TH, SOME TO THE  
 10TH. USERS ARE DIRECTED TO THE PUBLICATION FOR ANY FURTHER EXPLANATION.

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
MR. S. ELVOVE	NAUTICAL ALMANAC OFFICE USN OBSERVATORY WASHINGTON, DC 20390	TAPES ARE EXCHANGED ON THE BASIS OF THREE FOR EACH REQUESTED

\*\*\*\*\*  
 \* 013 \*  
 \*\*\*\*\*

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 WASHINGTON, DC  
 20390

TELEPHONE: (202) 254-4542

\*\*\*\*\*

\* DATA FILE 013B \*\*\*\*\* YALE BRIGHT STAR CATALOGUE \*\*\*\*\*

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N/A ENTRIES  
 9091 OBJECTS

N/A% COMPLETE  
 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1900)  
 DATES OF OBSERVATION:

OBJECT CLASSES

DATA CATEGORIES

PARALLAXES  
 POSITIONAL ASTRONOMY  
 PROPER MOTIONS  
 RADIAL VELOCITIES  
 SPECTROSCOPY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
<b>POSITIONAL DATA</b>				
RIGHT ASCENSION, DECLINATION	TRANSCR	REDUCED	100	EPOCH 1900 AND 2000
GALACTIC COORDINATES				IAV 1958
ANNUAL VARIATION	TRANSCR	REDUCED	100	
PROPER MOTION (R.A., DEC.)	TRANSCR	REDUCED	100	ERROR NOT SPECIFIED
PARALLAX, TRIGONOMETRIC	TRANSCR	REDUCED	30	SOME ARE DYNAMIC
<b>IDENTIFICATION</b>				
OTHER IDENTIFICATION NUMBERS			100	RAD. VEL., PARALLAX CAT.
<b>RADIATION</b>				
MAGNITUDES, VISUAL	TRANSCR (REMARKS)	REDUCED		SOME PHOTOELECTRIC
SPECTRAL CLASS	TRANSCR (REMARKS)	REDUCED		
LUMINOSITY CLASS				
COLORS				
<b>OTHER</b>				
RADIAL VELOCITY	TRANSCR (REMARKS)	REDUCED	80	
<b>RANGE OF COVERAGE</b>				
RIGHT ASCENSION:	0 TO 24 HOURS			GALACTIC LATITUDE:
DECLINATION:	-90 TO +90 DEGREES			GALACTIC LONGITUDE:
SPECTRAL TYPES:				MAGNITUDES:
OTHER:				DISTANCE:
FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE				
KEY REFERENCE(S)				
YALE BRIGHT STAR CATALOGUE				
DESCRIPTION OF MACHINE-READABLE DATA FORMS				
THIS CATALOGUE IS AVAILABLE ON 9-TRACK, BINARY MAGNETIC TAPE WRITTEN AT 800 OR 1600 BPI AND 7-TRACK, BCD MAGNETIC TAPE WRITTEN AT 556 OR 800 BPI.				
REMARKS				
RADIAL VELOCITIES ARE MAINLY TAKEN FROM THE WILSON CATALOGUE. OTHER TRANSCRIBED DATA ARE TAKEN FROM VARIOUS SOURCES, SEE PUBLISHED CATALOGUE FOR ANY FURTHER EXPLANATION.				

DISTRIBUTORS OF THE DATA SET

NAME-----  
 MR. S. ELVOVE

-----ADDRESS-----  
 NAUTICAL ALMANAC OFFICE  
 USN OBSERVATORY  
 WASHINGTON, DC 20390

-----CONDITIONS AND COMMENTS-----  
 TAPES ARE EXCHANGED ON THE BASIS OF  
 THREE FOR EACH REQUESTED.

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 \* 014 \*  
 \*\*\*\*\*

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 90009

TELEPHONE: (213) 648-6798

\*\*\*\*\*

\* DATA FILE 014A \*\*\*\*\* 90 GHZ QUASAR MONITORING \*\*\*\*\*

\*\*\*\*\*

2000 ENTRIES  
 10 OBJECTS

100% COMPLETE  
 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 DATES OF OBSERVATION: 1965 TO 1974

OBJECT CLASSES  
 -----  
 QUASARS  
 SEYFERT GALAXIES

DATA CATEGORIES  
 -----  
 RADIO ASTRONOMY

DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
ITEM				
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)		100	EPOCH 1950
IDENTIFICATION				
NGC, IC CATALOGUE NUMBER				
OTHER IDENTIFICATION NUMBERS				30
RADIATION				
FLUX	ORIGINAL	REDUCED	100	STANDARD ERROR GIVEN
RANGE OF COVERAGE				
RIGHT ASCENSION:	0 TO 24 HOURS			GALACTIC LATITUDE:
DECLINATION:	-25 TO +70 DEGREES			GALACTIC LONGITUDE:
SPECTRAL TYPES:				MAGNITUDES:
OTHER:				DISTANCE:

FORM(S) OF COMPILATION: 2000 PUNCHED COMPUTER CARDS

KEY REFERENCE(S)

FOGARTY, W.G., E.E. EPSTEIN, J.W. MONTGOMERY, AND M.M. DWORETSKY RADIO SOURCES - 3.3MM FLUX AND VARIABILITY MEASUREMENTS, ASTRONOM. J., 76, 537, AUG. 1971.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

THIS CATALOGUE IS AVAILABLE ON IBM (029) PUNCHED COMPUTER CARDS.

REMARKS

RIGHT ASCENSION AND DECLINATION ARE TRANSCRIBED FROM VARIOUS SOURCES. THIS CATALOGUE CONTAINS THE SHORTEST WAVELENGTH FOR WHICH FREQUENT QUASAR MONITORING DATA ARE AVAILABLE.

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
JULIA D. WHITE	THE AEROSPACE CORP. 130/422 P.O. BOX 92957 LOS ANGELES, CA 90009	

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 \* 015 \*  
 \*\*\*\*\*

DR. ROBERT F. GARRISON  
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 L4G 4Y6  
 CANADA

TELEPHONE: (416) 884-9562

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 \* DATA FILE 015A \*  
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## SPECTRA OF MIRA VARIABLES \*\*\*\*\*

N/A ENTRIES  
 N/A OBJECTS

N/A% COMPLETE  
 N/A% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1900)  
 DATES OF OBSERVATION: TO 1972

## OBJECT CLASSES

S STARS  
 RED GIANTS  
 MIRA VARIABLES  
 METAL-DEFICIENT STARS  
 M STARS  
 M GIANTS  
 LATE TYPE STARS  
 K STARS  
 K GIANTS

## DATA CATEGORIES

OPTICAL ASTRONOMY  
 SPECTROSCOPY

## DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
RADIATION				
MAGNITUDES, VISUAL	TRANSCR			
SPECTRAL CLASS	TRANSCR			ALSO ORIGINAL
EMISSION/ABSORPTION LINES	TRANSCR			ALSO ORIGINAL
LUMINOSITY CLASS	TRANSCR			ALSO ORIGINAL
VARIABLE STARS				
TYPE OF VARIABILITY	TRANSCR			
MAXIMUM AND MINIMUM MAGNITUDES	TRANSCR			
PERIOD OF VARIABILITY	TRANSCR			
INDIVIDUAL OBSERVATIONS				
MULTIPLE SYSTEMS				
MULTIPLICITY OF SYSTEM	TRANSCR			ALSO ORIGINAL
SEPARATION (VISUAL BINARIES)	TRANSCR			ALSO ORIGINAL
RANGE OF COVERAGE				
RIGHT ASCENSION:	0 TO 24 HOURS			GALACTIC LATITUDE:
DECLINATION:	-90 TO +90 DEGREES			GALACTIC LONGITUDE:
SPECTRAL TYPES:	K-M			MAGNITUDES:
OTHER:				DISTANCE:
FORM(S) OF COMPILATION:	INDEX CARDS			
KEY REFERENCE(S)	NONE GIVEN			
DESCRIPTION OF MACHINE-READABLE DATA FORMS	NONE GIVEN			
REMARKS	NONE GIVEN			

## DISTRIBUTORS OF THE DATA SET

NAME-----  
 DR. ROBERT F. GARRISON

ADDRESS-----  
 DAVID DUNLAP OBSERVATORY  
 UNIVERSITY OF TORONTO  
 RICHMOND HILL, ONTARIO  
 L4G 4Y6  
 CANADA

CONDITIONS AND COMMENTS

\*\*\*\*\*  
 \* 015 \*  
 \*\*\*\*\*

DR. ROBERT F. GARRISON  
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 ONTARIO  
 L4C 4Y6  
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\* DATA FILE 015B \*\*\*\*\* SPECTRAL CLASSIFICATIONS ON M K SYSTEM \*\*\*\*\*

\*\*\*\*\*

N/A ENTRIES  
 N/A OBJECTS

N/A% COMPLETE  
 N/A% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1900)  
 DATES OF OBSERVATION:

OBJECT CLASSES

DATA CATEGORIES

OPTICAL ASTRONOMY  
 SPECTROSCOPY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA RIGHT ASCENSION, DECLINATION	TRANSCR (HD)			EPOCH 1900
IDENTIFICATION HD CATALOGUE NUMBER DM CATALOGUE NUMBER OTHER IDENTIFICATION NUMBERS CLUSTER, ASSOCIATION MEMBERSHIP NO. OF OBS. PER OBJECT OF MEAS. REMARKS				BD, CDD, CPD
RADIATION MAGNITUDES, PHOTOGRAPHIC MAGNITUDES, PHOTOELECTRIC MAGNITUDES, OTHER SPECTRAL CLASS EMISSION/ABSORPTION LINES COLORS LUMINOSITY CLASS	TRANSCR (HD) TRANSCR (REMARKS) TRANSCR (REMARKS) TRANSCR (REMARKS) REDUCED TRANSCR (REMARKS) REDUCED TRANSCR (REMARKS) REDUCED TRANSCR (REMARKS) REDUCED			ALSO ORIGINAL ALSO ORIGINAL ALSO ORIGINAL
VARIABLE STARS TYPE OF VARIABILITY	TRANSCR			
MULTIPLE SYSTEMS MULTIPLICITY OF SYSTEM SEPARATION (VISUAL BINARIES)	TRANSCR TRANSCR			ALSO ORIGINAL ALSO ORIGINAL
RANGE OF COVERAGE RIGHT ASCENSION: 0 TO 24 HOURS DECLINATION: -90 TO +90 DEGREES SPECTRAL TYPES: OTHER:				GALACTIC LATITUDE: GALACTIC LONGITUDE: MAGNITUDES: DISTANCE:
FORM(S) OF COMPILATION: INDEX CARDS				
KEY REFERENCE(S) NONE GIVEN				
DESCRIPTION OF MACHINE-READABLE DATA FORMS NONE GIVEN				

REMARKS

THE TRANSCRIBED DATA ARE TAKEN FROM VARIOUS SOURCES. WHEN REASONABLY COMPLETE, THE CATALOGUE WILL BE COMPUTERIZED.

DISTRIBUTORS OF THE DATA SET

NAME-----  
 DR. ROBERT F. GARRISON

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CONDITIONS AND COMMENTS



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 \* 016 \*  
 \*\*\*\*\*

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 20910

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\* DATA FILE 016A \*\*\*\*\* SKYMAP \*\*\*\*\*

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255510 ENTRIES  
 255510 OBJECTS

100% COMPLETE  
 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1900)  
 DATES OF OBSERVATION: 1855 TO 1976

# OBJECT CLASSES

# DATA CATEGORIES

ASTROMETRY  
 CROSS INDEX  
 OPTICAL ASTRONOMY  
 PARALLAXES  
 PHOTOMETRY  
 POSITIONAL ASTRONOMY  
 PROPER MOTIONS  
 RADIAL VELOCITIES  
 SPECTROSCOPY

# DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
<b>POSITIONAL DATA</b>				
RIGHT ASCENSION, DECLINATION	TRANSCR (SAO)	REDUCED	100	EPOCH 1950
GALACTIC COORDINATES			100	SYSTEM 11
PROPER MOTION (R.A., DEC.)	TRANSCR (SAO)	REDUCED	90	
PARALLAX, TRIGONOMETRIC	TRANSCR (REMARKS)	REDUCED	2	
PARALLAX, SPECTROSCOPIC	ORIGINAL(MODEL)		83	
<b>IDENTIFICATION</b>				
RUNNING NO. IN SOURCE CATALOGUE			100	
HD CATALOGUE NUMBER			75	
DM CATALOGUE NUMBER			98	BD COD CPD
SAO CATALOGUE NUMBER			85	
NGC, IC CATALOGUE NUMBER			3	YALE BRIGHT STAR CATALOGUE NUMBER, STAR NAME
<b>RADIATION</b>				
MAGNITUDES, VISUAL	TRANSCR (REMARKS)	REDUCED	99	MANY FROM HD, CONVERTED TO V
MAGNITUDES, OTHER	TRANSCR (REMARKS)	REDUCED	98	U, B
SPECTRAL CLASS	TRANSCR (REMARKS)	REDUCED	87	MANY FROM HD, CONVERTED TO MK SYSTEM
LUMINOSITY CLASS	TRANSCR (REMARKS)	REDUCED	87	
EXTINCTION	ORIGINAL(MODEL)		80	
<b>DERIVED QUANTITIES</b>				
DISTANCE MODULUS	ORIGINAL(MODEL)		85	
<b>VARIABLE STARS</b>				
TYPE OF VARIABILITY	TRANSCR (REMARKS)	REDUCED	1	
MAXIMUM AND MINIMUM MAGNITUDES	TRANSCR (REMARKS)	REDUCED	1	
PERIOD OF VARIABILITY	TRANSCR (REMARKS)	REDUCED	1	
<b>MULTIPLE SYSTEMS</b>				
MULTIPLICITY OF SYSTEM	TRANSCR (REMARKS)	REDUCED	7	
MAX/MIN MAGNITUDES OF SYSTEM	TRANSCR (REMARKS)	REDUCED	7	
SEPARATION (VISUAL BINARIES)	TRANSCR (REMARKS)	REDUCED	7	
<b>OTHER</b>				
SPACE VELOCITY	ORIGINAL(MODEL)		65	
RADIAL VELOCITY	ORIGINAL(MODEL)		100	INVERSE OF BASIC SOLAR MOTION WHEN NOT IN WILSON

# RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES: -1.0 TO 9.0 (VISUAL OR PHOTOGRAPHIC)  
 DISTANCE:

FORM(S) OF COMPILATION: 4 DIGITAL MAGNETIC TAPES

# KEY REFERENCE(S)

SKYMAP SYSTEM DESCRIPTION, COMPUTER SCIENCES CORPORATION SD-76/6041 UD1(1977, DECEMBER).

# DESCRIPTION OF MACHINE-READABLE DATA FORMS

THIS CATALOGUE IS AVAILABLE ON 9-TRACK, 1600 BPI, BINARY MAGNETIC TAPE GENERATED ON AN IBM 360 COMPUTER.

# REMARKS

THE SOURCES OF TRANSCRIBED DATA ITEMS ARE AS FOLLOWS: TRIGONOMETRIC PARALLAXES FROM JENKINS; MAGNITUDES FROM USNO AND STRASBOURG CATALOGS; SPECTRAL TYPE AND LUMINOSITY CLASSES FROM JASCHEK; MULTIPLE STAR DATA FROM THE USNO; VARIABLE STAR DATA FROM KUKARKIN; RADIAL VELOCITY DATA WILL BE ADDED FROM EVANS AND NEW SPECTRAL TYPES FROM THE UNIV. OF MICHIGAN. ALL ORIGINAL DATA ITEMS ARE DERIVED FROM OTHER DATA IN THE CATALOGUE.

# DISTRIBUTORS OF THE DATA SET

NAME-----  
 DR. WAYNE H. WARREN JR.

ADDRESS-----  
 NATIONAL SPACE SCIENCE DATA CENTER  
 NASA CODE 601  
 GODDARD SPACE FLIGHT CENTER  
 GREENBELT, MD 20771

CONDITIONS AND COMMENTS  
 SUPPLY 4 BLANK TAPES

\*\*\*\*\*  
 \* 017 \*  
 \*\*\*\*\*

DR. CARL HEILES  
 ASTRONOMY DEPARTMENT  
 UNIVERSITY OF CALIFORNIA  
 BERKELEY, CA  
 94720

TELEPHONE: (415) 642-4510

\*\*\*\*\*

\* DATA FILE G17A \*\*\*\*\* 21-CM LINE SURVEY, NORTHERN SKY \*\*\*\*\*

\*\*\*\*\*

N/A ENTRIES  
 140000 OBJECTS

100% COMPLETE  
 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING:  
 DATES OF OBSERVATION: 1969 TO 1970

OBJECT CLASSES

H I REGIONS

DATA CATEGORIES

RADIO ASTRONOMY

DATA ITEMS APPEARING IN THE FILE

ITEM

TYPE (AND  
 MAJOR SOURCE)

NATURE  
 OF DATA

APPROX.  
 % WITH  
 THIS  
 GIVEN

COMMENTS AND OTHER INFORMATION

POSITIONAL DATA

RIGHT ASCENSION, DECLINATION  
 GALACTIC COORDINATES

ORIGINAL

100

100

RANGE OF COVERAGE

RIGHT ASCENSION:  
 DECLINATION: -30 TO +90 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE: +10 TO +90 DEGREES  
 GALACTIC LONGITUDE: 0 TO 360 DEGREES  
 MAGNITUDES:  
 DISTANCE:

FORM(S) OF COMPILATION: 3 DIGITAL MAGNETIC TAPES  
 1 BOUND BOOK

KEY REFERENCE(S)

ASTRON. AND ASTROPHYS. SUPPLEMENT SERIES, VOLUME 14, 1974.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

THIS CATALOGUE IS AVAILABLE ON 7-TRACK, BINARY, MAGNETIC TAPE GENERATED BY A CDC 6400 COMPUTER,  
 WRITTEN AT 800 BPI.

REMARKS

THE COMPLETE TITLE OF THIS CATALOGUE IS: AN ALMOST COMPLETE SURVEY OF 21 CM LINE RADIATION FOR  
 ABSOLUTE GALACTIC LATITUDE GREATER THAN OR EQUAL TO 10 DEGREES.

DISTRIBUTORS OF THE DATA SET

NAME

ADDRESS

CONDITIONS AND COMMENTS

DR. CARL HEILES

ASTRONOMY DEPARTMENT  
 UNIV. OF CALIFORNIA  
 BERKELEY, CA 94720

PAY FOR COPYING

DR. HARM HABING

STERREWACHT TE LEIDEN  
 LEIDEN  
 THE NETHERLANDS

A WIDE VARIETY OF TAPE FORMATS IS  
 AVAILABLE FROM THIS SOURCE.

\*\*\*\*\*  
 \* 018 \*  
 \*\*\*\*\*

DR. ROBERT S. HARRINGTON  
 US NAVAL OBSERVATORY  
 WASHINGTON, DC  
 20390

TELEPHONE: (202) 254-4535

\*\*\*\*\*

\* DATA FILE 018A \* \*\*\*\*\* POST YALE CATALOGUE PARALLAXES \*\*\*\*\*

\*\*\*\*\*

1300 ENTRIES 100% COMPLETE  
 1000 OBJECTS 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION  
 DATES OF OBSERVATION:

OBJECT CLASSES

DATA CATEGORIES

ASTROMETRY  
 OPTICAL ASTRONOMY  
 PARALLAXES  
 POSITIONAL ASTRONOMY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)	RAW	100	
PARALLAX, TRIGONOMETRIC	TRANSCR (REMARKS)	REDUCED	100	

RADIATION  
 MAGNITUDES, OTHER

TRANSCR (REMARKS) REDUCED 90

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE: -90 TO +90 DEGREES  
 GALACTIC LONGITUDE: 0 TO 360 DEGREES  
 MAGNITUDES: -2.0 TO 20.0 (VISUAL OR PHOTOGRAPHIC)  
 DISTANCE:

FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE  
 1300 PUNCHED COMPUTER CARDS

KEY REFERENCE(S)

NONE GIVEN

DESCRIPTION OF MACHINE-READABLE DATA FORMS

THIS CATALOGUE IS PRESENTLY AVAILABLE ON PUNCHED COMPUTER CARDS. THESE DATA CAN BE WRITTEN ON MAGNETIC TAPE IN ANY INDUSTRY COMPATIBLE FORMAT.

REMARKS

ALL DATA ARE TRANSCRIBED DIRECTLY FROM THE SOURCE REFERENCE. THESE DATA ARE CONTINUOUSLY BEING ADDED TO AND UPDATED.

DISTRIBUTORS OF THE DATA SET

NAME  
 DR. R. S. HARRINGTON

ADDRESS  
 US NAVAL OBSERVATORY  
 WASHINGTON, DC 20390

CONDITIONS AND COMMENTS  
 USER MUST SUPPLY TAPE

\*\*\*\*\*  
 \* 019 \*  
 \*\*\*\*\*

DR. B. HAUCK  
 INSTITUT D'ASTRONOMIE  
 LAUSANNE UNIVERSITE  
 1290 CHAVANNES-DES-BOIS  
 SWITZERLAND

TELEPHONE:

\*\*\*\*\*

\* DATA FILE 019A \* \*\*\*\*\* PHOTOMETRIC CATALOGUES IN VARIOUS SYSTEMS \*\*\*\*\*

\*\*\*\*\*

N/A ENTRIES  
 73000 OBJECTS

85% COMPLETE  
 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING:  
 DATES OF OBSERVATION:

OBJECT CLASSES

DATA CATEGORIES

PHOTOMETRY

DATA ITEMS APPEARING IN THE FILE

ITEM

TYPE (AND  
 MAJOR SOURCE)

NATURE  
 OF DATA

APPROX.  
 % WITH  
 THIS  
 GIVEN

COMMENTS AND OTHER INFORMATION

IDENTIFICATION

HD CATALOGUE NUMBER  
 DM CATALOGUE NUMBER  
 NGC, IC CATALOGUE NUMBER  
 CLUSTER, ASSOCIATION MEMBERSHIP

RADIATION

PHOTOMETRIC SYSTEM(S)

UBV, UVBYB, GENEVA, DDO, VILNIUS, UBVRI, U SUB C BV

RANGE OF COVERAGE

RIGHT ASCENSION:  
 DECLINATION:  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES:  
 DISTANCE:

FORM(S) OF COMPILATION: 9 DIGITAL MAGNETIC TAPES  
 MICROFICHES

KEY REFERENCE(S)

ASTRON. AND ASTROPHYS. SUPPL. 22, 235, 1975; 22, 39, 1975; 24, 159, 1976; 29, 259, 1977.  
 ALSO SEE THE VARIOUS INFORMATION BULLETINS OF STELLAR DATA CENTRE, STRASBOURG.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

AS THESE DATA ARE DISTRIBUTED BY THE CENTRE DE DONNEES STELLAIRES, IT IS POSSIBLE TO DISTRIBUTE THEM  
 IN VARIOUS WAYS.

REMARKS

NONE GIVEN

DISTRIBUTORS OF THE DATA SET

NAME

DR. C. JASCHEK

ADDRESS

CENTRE DE DONNEES STELLAIRES  
 OBSERVATOIRE DE STRASBOURG  
 11, RUE DE L'UNIVERSITE  
 67000 STRASBOURG  
 FRANCE

CONDITIONS AND COMMENTS

\*\*\*\*\*  
 \* 020. \*  
 \*\*\*\*\*

DR. ANDRE HECK  
 VILLAFRANCA SATELLITE TRACKING STATION  
 APARTADO 54065  
 MADRID  
 SPAIN

TELEPHONE:

\*\*\*\*\*

\* DATA FILE 020A \*\*\*\*\* KINEMATICAL DATA OF TWO SAMPLES OF LATE-TYPE STARS \*\*\*\*\*

\*\*\*\*\* N/A ENTRIES N/A% COMPLETE PRIMARY SEQUENCE OF ORDERING: HD NUMBER  
 304 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION:

OBJECT CLASSES

LATE TYPE STARS

DATA CATEGORIES

ASTROMETRY  
 CROSS INDEX  
 OPTICAL ASTRONOMY  
 PHOTOMETRY  
 PROPER MOTIONS  
 RADIAL VELOCITIES  
 SPACE MOTIONS  
 SPECTROPHOTOMETRY  
 SPECTROSCOPY  
 STELLAR STATISTICS

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
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POSITIONAL DATA PROPER MOTION (R.A., DEC.)	TRANSCR (REMARKS)	REDUCED	100	ERROR IS SPECIFIED
---	-------------------	---------	-----	--------------------

IDENTIFICATION HD CATALOGUE NUMBER			100	ONLY ONE STAR HAS A BD NUMBER
---------------------------------------	--	--	-----	-------------------------------

RADIATION MAGNITUDES, VISUAL	TRANSCR (REMARKS)	REDUCED	100	
MAGNITUDES, OTHER	ORIGINAL (REMARKS)	REDUCED	100	ABSOLUTE

OTHER SPACE VELOCITY	ORIGINAL (REMARKS)	REDUCED	100	
RADIAL VELOCITY	TRANSCR (REMARKS)	REDUCED	100	

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES: K-M  
 OTHER:

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES:  
 DISTANCE:

FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE  
 REPRINTS

KEY REFERENCE(S)

GRENIER, S., A. HECK, AND J. JUNG - ASTRON. AND ASTROPHYS. SUPPL., 27, 267, 1977.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

THIS CATALOGUE CAN BE COPIED BY AN IBM 370/158 COMPUTER ON 9-TRACK, EBCDIC MAGNETIC TAPE WRITTEN AT 1600 BPI.

REMARKS

VISUAL MAGNITUDES WERE OBTAINED FROM THE STELLAR DATA CENTER, STRASBOURG. OTHER TRANSCRIBED DATA ARE FROM GRENIER, S., HECK, A., JUNG, J., 1976 ASTRONOMY AND ASTROPHYSICS 52, 385.

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. ANDRE HECK	VILLAFRANCA SATELLITE TRACKING STATION APARTADO 54065 MADRID SPAIN	SUPPLY BLANK MAGNETIC TAPE FOR COPYING

\*\*\*\*\*  
 \* 020 \*  
 \*\*\*\*\*

DR. ANDRE HECK  
 VILLAFRANCA SATELLITE TRACKING STATION  
 APARTADO 54065  
 MADRID  
 SPAIN

TELEPHONE:

\*\*\*\*\*

\* DATA FILE 020B \*\*\*\*\* A BIBLIOGRAPHICAL CATALOGUE OF FIELD RR LYRAE STAR \*\*\*\*\*

\*\*\*\*\* 6607 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING:  
 5855 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION: 1972 TO 1976

OBJECT CLASSES

RR LYRAE STARS

DATA CATEGORIES

BIBLIOGRAPHICAL REFERENCES

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
IDENTIFICATION				
OTHER (SEE COMMENTS)			100	VARIABLE NAME

VARIABLE STARS

OTHER (SEE COMMENTS)

BIBLIOGRAPHICAL REFERENCE

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES:  
 OTHER: FIELD RR LYRAE STARS

GALACTIC LATITUDE: -90 TO +90 DEGREES  
 GALACTIC LONGITUDE: 0 TO 360 DEGREES  
 MAGNITUDES:  
 DISTANCE:

FORM(S) OF COMPILATION: 1 MAGNETIC TAPES  
 1 MICROFICHES

KEY REFERENCE(S)

HECK, A., LAKAYE, J.M. 1977, ASTRON. ASTROPHYS. SUPPL. 30(1977)397

DESCRIPTION OF MACHINE-READABLE DATA FORMS

-MICROFICHES -MAGNETIC TAPE (CREATED BY IBM 360/65, DENSITY UP TO 1600 7 OR 9 TRACKS, EBCDIC

REMARKS

NONE GIVEN

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
CENTRE DE DONNEES STELLAIRES	OBSERVATOIRE DE STRASBOURG 11, RUE DE L'UNIVERSITE F-67000 STRASBOURG FRANCE	SEE LAST ISSUE OF "INFORMATION BULLETIN OF THE STRASBOURG STELLAR DATA CENTRE".

\*\*\*\*\*  
 \* 021 \*  
 \*\*\*\*\*

DR. WILLIAM HERBST      TELEPHONE: (202) 966-0863  
 DEPARTMENT OF TERRESTRIAL MAGNETISM  
 CARNEGIE INSTITUTION OF WASHINGTON  
 5241 BROAD BRANCH ROAD, NW  
 WASHINGTON, DC  
 20015

\*\*\*\*\*

\* DATA FILE 021A \*\*\*\*\* STARS ILLUMINATING REFLECTION NEBULAE \*\*\*\*\*

\*\*\*\*\*

300 ENTRIES  
 300 OBJECTS

100% COMPLETE  
 N/AZ MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 DATES OF OBSERVATION: 1966 TO 1975

OBJECT CLASSES  
 REFLECTION NEBULAE

DATA CATEGORIES  
 OPTICAL ASTRONOMY  
 PHOTOMETRY  
 SPECTROSCOPY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA RIGHT ASCENSION, DECLINATION, GALACTIC COORDINATES	ORIGINAL	RAW	50 100	EPOCH 1950 SYSTEM II
IDENTIFICATION RUNNING NO. IN SOURCE CATALOGUE			100	
HD CATALOGUE NUMBER			50	
DM CATALOGUE NUMBER			20	BD CDD CPD
NGC, IC CATALOGUE NUMBER			5	
CLUSTER, ASSOCIATION MEMBERSHIP ORIGINAL			75	
NO. OF OBS. PER OBJECT OF MEAS.			100	
CHARTS AVAILABLE			50	
REMARKS			50	
RADIATION MAGNITUDES, PHOTOELECTRIC	ORIGINAL	REDUCED	100	
SPECTRAL CLASS	ORIGINAL	REDUCED	70	
LUMINOSITY CLASS	ORIGINAL	REDUCED	70	
COLORS	ORIGINAL	REDUCED	100	
COLOR EXCESS	ORIGINAL	REDUCED	90	
EXTINCTION	ORIGINAL	REDUCED	90	
DERIVED QUANTITIES DISTANCE MODULUS	ORIGINAL	AVERAGED	90	
RANGE OF COVERAGE RIGHT ASCENSION: 0 TO 23 HOURS DECLINATION: -70 TO +90 DEGREES SPECTRAL TYPES: O-M OTHER:				GALACTIC LATITUDE: -75 TO +90 DEGREES GALACTIC LONGITUDE: 0 TO 359 DEGREES MAGNITUDES: 5.0 TO 14.0 (VISUAL OR PHOTOGRAPHIC) DISTANCE: TO 6 KPC
FORM(S) OF COMPILATION: 2 BOUND BOOKS				
KEY REFERENCE(S) RACINE, R. - ASTRONOM. J., 73, 233, 1968. HERBST, W. - ASTRONOM. J., 80, 212, 1975.				
DESCRIPTION OF MACHINE-READABLE DATA FORMS NONE GIVEN				
REMARKS THE NORTHERN CATALOGUE IS RESTRICTED TO STARS IN THE BD CATALOGUE WHICH ILLUMINATE NEBULOSITY VISIBLE ON BOTH PLATES OF THE PALOMAR SKY SURVEY. THE SOUTHERN CATALOGUE IS LIMITED TO A BAND OF PLUS OR MINUS 6 DEGREES AROUND THE GALACTIC PLANE.				

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. WILLIAM HERBST	DEPARTMENT OF TERRESTRIAL MAGNETISM CARNEGIE INSTITUTION OF WASHINGTON 5241 BROAD BRANCH ROAD, NW WASHINGTON, DC 20015	
DR. S. VAN DEN BERGH	DOMINION ASTROPHYSICAL OBSERVATORY 5071 W. SAANICH ROAD VICTORIA, BC V8X 3X3 CANADA	

\*\*\*\*\*  
 \* 022 \*  
 \*\*\*\*\*

DR. R. KENT HONEYCUTT  
 ASTRONOMY DEPARTMENT  
 SWAIN HALL WEST 319  
 INDIANA UNIVERSITY  
 BLOOMINGTON, IN  
 47401

TELEPHONE: (812) 337-6911

\*\*\*\*\*

\* DATA FILE 022A \*\*\*\*\* STEPHSEN'S CATALOG OF COOL CARBON STARS \*\*\*\*\*

\*\*\*\*\*  
 3219 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1900)  
 3219 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION:

OBJECT CLASSES

CARBON STARS

DATA CATEGORIES

OPTICAL ASTRONOMY  
 SPECTROSCOPY

DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
ITEM				
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	TRANSCR	AVERAGED	100	EPOCH 1900
IDENTIFICATION				
RUNNING NO. IN SOURCE CATALOGUE			100	
HD CATALOGUE NUMBER				IF AVAILABLE
DM CATALOGUE NUMBER				BD COD, IF AVAILABLE
OTHER IDENTIFICATION NUMBERS				IF AVAILABLE
RADIATION				
MAGNITUDES, VISUAL	TRANSCR			IF AVAILABLE
MAGNITUDES, PHOTOGRAPHIC	TRANSCR			IF AVAILABLE
MAGNITUDES, OTHER	TRANSCR			M SUB LOWER CASE I
SPECTRAL CLASS	TRANSCR			

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES: C  
 OTHER:

GALACTIC LATITUDE: -90 TO +90 DEGREES  
 GALACTIC LONGITUDE: 0 TO 360 DEGREES  
 MAGNITUDES: 0.0 TO 11.0 (PHOTOGRAPHIC)  
 DISTANCE:

FORM(S) OF COMPILATION: DIGITAL MAGNETIC TAPE  
 PUNCHED COMPUTER CARDS

KEY REFERENCE(S)

STEPHENSON, C.B. - PUBLICATIONS - WARNER AND SWASEY OBS., 1, NO. 4, 1973.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

ONE, TWO OR THREE CARDS PER STAR, LISTING DATA IN COLUMNS 1-8 OF STEPHENSON'S CARBON STAR CATALOG. DOES NOT INCLUDE L, B, OR NOTES COLUMN. CAN BE PUT ON 7-TRACK MAGNETIC TAPE IN CDC 6600 FORMAT.

REMARKS

MACHINE-READABLE COPY HAS NOT BEEN CHECKED, IN DETAIL, FOR ACCURACY OF TRANSCRIPTION FROM CATALOGUE.

DISTRIBUTORS OF THE DATA SET

NAME  
 DR. R. KENT HONEYCUTT

ADDRESS  
 ASTRONOMY DEPARTMENT  
 SWAIN HALL WEST 319  
 INDIANA UNIVERSITY  
 BLOOMINGTON, IN 47401

CONDITIONS AND COMMENTS  
 SUPPLY POSTAGE FOR CARDS, OR BLANK  
 MAGNETIC TAPE



\*\*\*\*\*  
 \* 023 \*  
 \*\*\*\*\*

DR. J. P. HUCHRA  
 CENTER FOR ASTROPHYSICS  
 SMITHSONIAN ASTROPHYSICAL OBSERVATORY  
 60 GARDEN ST  
 CAMBRIDGE, MA  
 02138

TELEPHONE: (617) 495-7375

\*\*\*\*\*

\* DATA FILE 023A \*\*\*\*\* MARKARIAN GALAXY DATA \*\*\*\*\*

\*\*\*\*\*

700 ENTRIES 50% COMPLETE  
 700 OBJECTS 50% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: MARKARIAN NUMBER  
 DATES OF OBSERVATION: 1969 TO 1976

OBJECT CLASSES  
 -----  
 MARKARIAN GALAXIES

DATA CATEGORIES  
 -----  
 PHOTOMETRY  
 RADIO ASTRONOMY  
 REDSHIFTS  
 SPECTROSCOPY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
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POSITIONAL DATA  
 RIGHT ASCENSION, DECLINATION

EPOCH 1950

IDENTIFICATION  
 RUNNING NO. IN SOURCE CATALOGUE  
 NGC, IC CATALOGUE NUMBER  
 OTHER IDENTIFICATION NUMBERS  
 CHARTS AVAILABLE

RADIATION				
MAGNITUDES, PHOTOGRAPHIC	TRANSCR		100	ZWICKY AND MARKARIAN CATALOGUES
MAGNITUDES, PHOTOELECTRIC	TRANSCR	RAW	30	UBVR, ALSO ORIGINAL
FLUX	TRANSCR		6	CM
EMISSION/ABSORPTION LINES	TRANSCR		20	ALSO ORIGINAL
OTHER (SEE COMMENTS)	TRANSCR			21 CM MEASUREMENTS

OTHER REDSHIFT	TRANSCR		80	ALSO ORIGINAL
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RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -3 TO +90 DEGREES  
 SPECTRAL TYPES:  
 OTHER: SELECT AREAS OF SKY

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES: 11.5 TO 17.0  
 DISTANCE:

FORM(S) OF COMPILATION: 30 PAGES OF COMPUTER PRINTOUT  
 2000 PUNCHED COMPUTER CARDS

KEY REFERENCE(S)

HUCHRA, J. - PH.D. THESIS, CALIF. INST. OF TECH., 1976. IN PREPARATION.

DESCRIPTION OF MACHINE-READABLE DATA FORMS  
 NONE GIVEN

REMARKS

THIS DATA SET CONTAINS AVAILABLE REDSHIFTS, PHOTOMETRY (OPTICAL AND IR), RADIO CONTINUUM AND 21'CM MEASUREMENTS OF MARKARIAN GALAXIES. THESE DATA WILL BE CONTINUOUSLY UPDATED.

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. J. P. HUCHRA	CENTER FOR ASTROPHYSICS SMITHSONIAN ASTROPHYSICAL OBSERVATORY 60 GARDEN ST CAMBRIDGE, MA 02138	CARD OR TAPE COSTS

\*\*\*\*\*  
 \* 024 \*  
 \*\*\*\*\*

DR. HAROLD L. JOHNSON  
 STEWARD OBSERVATORY  
 UNIVERSITY OF ARIZONA  
 TUCSON, AZ  
 85721

TELEPHONE: (602) 297-7829

\*\*\*\*\*

\* DATA FILE 024A \*\*\*\*\* THIRTEEN COLOR PHOTOMETRY OF 1380 BRIGHT STARS \*\*\*\*\*

\*\*\*\*\* 18000 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION  
 1380 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION: 1966 TO 1972

OBJECT CLASSES

DATA CATEGORIES

INFRARED ASTRONOMY  
 OPTICAL ASTRONOMY  
 PHOTOMETRY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
IDENTIFICATION RUNNING NO. IN SOURCE CATALOGUE OTHER (SEE COMMENTS)	TRANSCR			BRIGHT STAR CATALOG NUMBERS STAR NAMES
RADIATION MAGNITUDES, PHOTOELECTRIC SPECTRAL CLASS LUMINOSITY CLASS COLORS OTHER (SEE COMMENTS)	ORIGINAL TRANSCR (REMARKS) TRANSCR (REMARKS) ORIGINAL TRANSCR	AVERAGED AVERAGED AVERAGED AVERAGED	100 100 100 100	ALSO REDUCED  ALSO REDUCED STAR NAMES

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES: ALL  
 OTHER: SEE REMARKS

GALACTIC LATITUDE: -90 TO +90 DEGREES  
 GALACTIC LONGITUDE: 0 TO 360 DEGREES  
 MAGNITUDES: -1.5 TO 6.5 (VISUAL OR PHOTOGRAPHIC)  
 DISTANCE:

FORM(S) OF COMPILATION: DIGITAL MAGNETIC TAPE  
 BOUND BOOKS OR JOURNALS

KEY REFERENCE(S)

- REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, 1, 299, 1975.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

THIS CATALOGUE CAN BE COPIED BY A DEC-SYSTEM-10 OR DGC NOVA COMPUTCOMPATABLE TRACK MAGNETIC TAPE  
 WRITTEN AT 800 OR 1600 BPI. THESE DATA CAN BE WRITTEN IN ANY INDUSTRY COMPATABLE FORMAT.

REMARKS

SPECTRAL AND LUMINOSITY CLASSES ARE TRANSCRIBED FROM VARIOUS SOURCES. THE CATALOGUE CONSISTS OF 13  
 COLOR PHOTOMETRY OF ALL THE STARS BRIGHTER THAN 4 MAGNITUDE VISUAL; ALL THE STARS NORTH OF DEC -20  
 DEGREES BRIGHTER THEN 5 MAGNITUDE VISUAL. THE ABSOLUTE CALIBRATION IS INCLUDED.

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. HAROLD L. JOHNSON	STEWART OBSERVATORY UNIVERSITY OF ARIZONA TUCSON, AZ 85721	REQUESTER MUST BUY OR SUPPLY MAGNETIC TAPE, PAY COMPUTER AND POSTAGE COST, AND PAY COST OF PROGRAMMING FOR SPECIAL FORMATS.
THE DIRECTOR	COMPUTER CENTER UNIVERSITY OF ARIZONA TUCSON, AZ 85721	REQUESTER MUST BUY OR SUPPLY MAGNETIC TAPE, PAY COMPUTER AND POSTAGE COST, AND PAY COST OF PROGRAMMING FOR SPECIAL FORMATS.

\*\*\*\*\*  
 \* 024 \*  
 \*\*\*\*\*

DR. HAROLD L. JOHNSON  
 STEWARD OBSERVATORY  
 UNIVERSITY OF ARIZONA  
 TUCSON, AZ  
 85721

TELEPHONE: (602) 297-7829

\*\*\*\*\*

\* DATA FILE 024B \*\*\*\*\* AN ATLAS OF STELLAR SPECTRA, I \*\*\*\*\*

\*\*\*\*\* 60000 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: SPECTRAL TYPE  
 17 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION: 1975 TO

OBJECT CLASSES

A STARS  
 B STARS  
 BE STAR  
 CARBON STARS  
 F STARS  
 G STARS  
 K GIANTS  
 M GIANTS  
 O STARS  
 S STARS

DATA CATEGORIES

FFT INSTRUMENT  
 INFRARED ASTRONOMY  
 OPTICAL ASTRONOMY  
 PHOTOMETRY  
 SPECTROPHOTOMETRY  
 SPECTROSCOPY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
IDENTIFICATION				
OTHER (SEE COMMENTS)	TRANSCR		100	STAR NAMES
RADIATION				
PHOTOMETRIC SYSTEM(S)				
SPECTRAL CLASS	TRANSCR (REMARKS)			
COLORS	ORIGINAL	REDUCED	100	PHOTOMETRIC SPECTRA 4000 A TO 11000 A JOHNSON AND MITCHELL-REV. MEXICANA 4000-FILTER PHOTOMETRY ABSOLUTE CALIBRATION
OTHER (SEE COMMENTS)				

RANGE OF COVERAGE

RIGHT ASCENSION:  
 DECLINATION:  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES: 0.0 TO 7.0  
 DISTANCE:

FORM(S) OF COMPILATION: DIGITAL MAGNETIC TAPE  
 BOUND BOOK

KEY REFERENCE(S)

- REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, 2, 71, 1977

DESCRIPTION OF MACHINE-READABLE DATA FORMS

THIS CATALOGUE CAN BE COPIED BY A DEC-SYSTEM-10 OR DGC NOVA COMPUTER ON 9-TRACK MAGNETIC TAPE WRITTEN AT 800 OR 1600 BPI. THESE DATA CAN BE WRITTEN IN ANY INDUSTRY COMPATIBLE FORMAT.

REMARKS

NONE GIVEN

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. HAROLD L. JOHNSON	STEWART OBSERVATORY UNIVERSITY OF ARIZONA TUCSON, AZ 85721	REQUESTERS MUST PAY THE COST OF PRODUCTION AS SET BY THE DIRECTOR OF UNIVERSITY OF ARIZONA COMPUTER CENTER.
THE DIRECTOR	COMPUTER CENTER UNIVERSITY OF ARIZONA TUCSON, AZ 85721	REQUESTERS MUST PAY THE COST OF PRODUCTION AS SET BY THE DIRECTOR OF UNIVERSITY OF ARIZONA COMPUTER CENTER.

\*\*\*\*\*  
 \* 025 \*  
 \*\*\*\*\*

DR. SUSAN E. KAYSER  
 CODE 624  
 GODDARD SPACE FLIGHT CENTER  
 GREENBELT, MD  
 20771

TELEPHONE: (301) 982-4912

\*\*\*\*\*

\* DATA FILE 025A \*\*\*\*\* B-V PHOTOMETRY FOR NGC 6822 \*\*\*\*\*

\*\*\*\*\*

4608 ENTRIES 100% COMPLETE  
 1300 OBJECTS N/A MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: FINDING CHART  
 DATES OF OBSERVATION: 1923 TO 1963

OBJECT CLASSES

DATA CATEGORIES

OPTICAL ASTRONOMY  
 PHOTOMETRY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
IDENTIFICATION				
RUNNING NO. IN SOURCE CATALOGUE			100	
CHARTS AVAILABLE			100	
RADIATION				
MAGNITUDES, VISUAL	ORIGINAL	AVERAGED	100	
MAGNITUDES, PHOTOGRAPHIC	ORIGINAL	REDUCED	100	
COLORS	ORIGINAL	AVERAGED	100	
COLOR EXCESS	ORIGINAL	AVERAGED		MEAN VALUE
EXTINCTION	ORIGINAL	AVERAGED		MEAN VALUE
DERIVED QUANTITIES				
DISTANCE MODULUS	ORIGINAL	REDUCED		
VARIABLE STARS				
TYPE OF VARIABILITY	ORIGINAL		100	
MAXIMUM AND MINIMUM MAGNITUDES			100	
PERIOD OF VARIABILITY	ORIGINAL	REDUCED	100	
INDIVIDUAL OBSERVATIONS			100	

RANGE OF COVERAGE

RIGHT ASCENSION: 20 TO HOURS  
 DECLINATION: -15 TO DEGREES  
 SPECTRAL TYPES: ALL  
 OTHER:

GALACTIC LATITUDE: -18 TO DEGREES  
 GALACTIC LONGITUDE: 25 TO DEGREES  
 MAGNITUDES: 12.0 TO 19.0 (VISUAL)  
 DISTANCE: 560 TO KPC

FORM(S) OF COMPILATION: 1 BOUND BOOK

KEY REFERENCE(S)

- PHOTOMETRY OF THE NEARBY IRREGULAR GALAXY, NGC6822, UCRL-14801-T, ASTROPHYS. J., 134, 1967.

DESCRIPTION OF MACHINE-READABLE DATA FORMS  
 NONE GIVEN

REMARKS

A UVB PHOTOELECTRIC MAGNITUDE SEQUENCE IS AVAILABLE.

DISTRIBUTORS OF THE DATA SET

NAME-----  
 DR. SUSAN KAYSER

-----ADDRESS-----  
 6200 WESTCHESTER PARK DRIVE NO. 1115  
 COLLEGE PARK, MD 20742

-----CONDITIONS AND COMMENTS-----  
 ONLY ABOUT 20 COPIES AVAILABLE

\*\*\*\*\*  
 \* 026 \*  
 \*\*\*\*\*

DR. YOJI KONDO  
 CODE 685  
 GODDARD SPACE FLIGHT CENTER  
 GREENBELT, MD.  
 20771

TELEPHONE: (301) 982-6247

\*\*\*\*\*

\* DATA FILE 026A \*\*\*\*\* BALLOON ULTRAVIOLET STELLAR SPECTROSCOPY JSC/SRL \*\*\*\*\*

\*\*\*\*\* 110 ENTRIES 30% COMPLETE PRIMARY SEQUENCE OF ORDERING: CHRONOLOGICAL  
 80 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION: 1971 TO 1976

OBJECT CLASSES

DATA CATEGORIES

PHOTOMETRY  
 SPECTROPHOTOMETRY  
 SPECTROSCOPY  
 ULTRAVIOLET ASTRONOMY

DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA RIGHT ASCENSION, DECLINATION	TRANSCR		100	DATE OF OBSERVATION
IDENTIFICATION OTHER IDENTIFICATION NUMBERS NO. OF OBS. PER OBJECT OF MEAS.			100 100	EAYER NO. OR FLAMSTEED NO.
RADIATION MAGNITUDES, VISUAL FLUX SPECTRAL CLASS EMISSION/ABSORPTION LINES	TRANSCR (REMARKS) ORIGINAL TRANSCR (REMARKS) ORIGINAL	RAW REDUCED	100 100 100 30	SPECTRAL ENERGY DISTRIBUTION: 2000A TO 3400A
DERIVED QUANTITIES OTHER (SEE COMMENTS)	ORIGINAL	REDUCED	10	RATES OF MASS LOSS
VARIABLE STARS INDIVIDUAL OBSERVATIONS OTHER (SEE COMMENTS)	ORIGINAL	REDUCED	50 10	CIRCUMSTELLAR EMISSION (UV)
MULTIPLE SYSTEMS OTHER (SEE COMMENTS)	ORIGINAL	REDUCED	20	COMBINED UV SPECTRUM
OTHER RADIAL VELOCITY	ORIGINAL	REDUCED	30	VELOCITY OF MASS EJECTION

RANGE OF COVERAGE  
 RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -30 TO +90 DEGREES  
 SPECTRAL TYPES: 09 THROUGH M8  
 OTHER: LUM. CLASS IA TO V  
 GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES: 0.0 TO 4.5 (VISUAL)  
 DISTANCE:

FORM(S) OF COMPILATION: 30 DIGITAL MAGNETIC TAPES  
 130 HP CALCULATOR MAG. CARDS

KEY REFERENCE(S)

KONDO, Y., R.T. GIULI, J.L. MODISSETTE, AND A.E. RYDGREN - ASTROPHYS. J., 176, 153, 1972. DE JAGER, C., Y. KONDO, K.A. VAN DER HUHT, AND T.H. MORGAN - HIGH RESOLUTION STELLAR SPECTROSCOPY IN THE BALLOON ULTRAVIOLET, PROC. 19TH COSPAR PLENARY MEETING, 1976, IN PRESS.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

ALL RAW DATA ARE AVAILABLE ON 7-TRACK, 800 BPI, BINARY MAGNETIC TAPE. SOME REDUCED DATA ARE ALSO AVAILABLE ON MAGNETIC CARDS FOR USE WITH A HP 9100 CALCULATOR

REMARKS

POSITIONS AND MAGNITUDES ARE FROM THE YALE BRIGHT STAR CATALOGUE.

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. YOJI KONDO	CODE 685 GODDARD SPACE FLIGHT CENTER GREENBELT, MD. 20771	

\*\*\*\*\*  
\* 027 \*  
\*\*\*\*\*

DR. DAVID D. MEISEL  
DEPARTMENT OF PHYSICS AND ASTRONOMY  
NEW YORK STATE UNIVERSITY COLLEGE  
GENESEO, NY  
14454

TELEPHONE: (716) 245-5285

\*\*\*\*\*  
\* DATA FILE 027A \*\*\*\*\* ASTROPHYSICAL CROSS-REFERENCE LIST OF DOUBLE STARS \*\*\*\*\*  
\*\*\*\*\*  
N/A ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1900)  
2000 OBJECTS N/A MACHINE-READABLE DATES OF OBSERVATION: TO 1960

OBJECT CLASSES	DATA CATEGORIES
AM STARS	CROSS INDEX
AP STARS	OPTICAL ASTRONOMY
ALGOL SYSTEMS	PHOTOMETRY
ASSOCIATIONS	RADIAL VELOCITIES
BP STARS	ROTATIONAL VELOCITIES
BE STARS	SPECTROPHOTOMETRY
BETA CEPHEI STARS	SPECTROSCOPY
BETA CMA STARS	
BETA LYRAE STARS	
BINARIES	
CEPHEIDS	
CLOSE BINARIES	
DELTA SCUTI STARS	
EARLY-TYPE STARS	
ECLIPSING VARIABLES	
EMISSION STARS	
HIGH-VELOCITY STARS	
MIRA VARIABLES	
MULTIPLE STARS	
O STARS	
OB STARS	
OF STARS	
OPEN CLUSTERS	
ROTATING STARS	
SHELL STARS	
SPECTROSCOPIC BINARIES	
VARIABLES	
VISUAL BINARIES	
WOLF-RAYET STARS	
STAR CLUSTERS	

DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)		100	EP02H 1900
OTHER (SEE COMMENTS)	TRANSCR		50	SOME DISTANCES AND POSITION ANGLES
IDENTIFICATION				
HD CATALOGUE NUMBER			20	NOT COMPLETE
RADIATION				
MAGNITUDES, VISUAL	TRANSCR (REMARKS)		100	RELATIVE MAGNITUDES
SPECTRAL CLASS	ORIGINAL	REDUCED	10	SELECTED SYSTEMS ONLY
EMISSION/ABSORPTION LINES	ORIGINAL	REDUCED	10	SELECTED SYSTEMS ONLY
LUMINOSITY CLASS	ORIGINAL	REDUCED	10	SELECTED SYSTEMS ONLY
VARIABLE STARS				
TYPE OF VARIABILITY	TRANSCR		100	FROM THE VARIABLE STAR CATALOG
OTHER (SEE COMMENTS)	TRANSCR		100	STANDARD VARIABLE STAR LABEL, FROM THE VAR. STAR CAT.
MULTIPLE SYSTEMS				
TYPE OF MULTIPLICITY	TRANSCR (REMARKS)		100	
MULTIPLICITY OF SYSTEM	TRANSCR (REMARKS)		100	
SEPARATION (VISUAL BINARIES)	TRANSCR (REMARKS)			
OTHER (SEE COMMENTS)	TRANSCR		100	ECLIPSING BINARIES, FROM THE EB FIND LIST
OTHER				
ROTATIONAL VELOCITY	ORIGINAL	REDUCED	10	
RADIAL VELOCITY	ORIGINAL	REDUCED	10	
REDSHIFT		REDUCED	10	

RANGE OF COVERAGE  
RIGHT ASCENSION: 0 TO 24 HOURS  
DECLINATION: -90 TO +90 DEGREES  
SPECTRAL TYPES:  
OTHER: KNOWN PRIOR TO 1960

GALACTIC LATITUDE:  
GALACTIC LONGITUDE:  
MAGNITUDES:  
DISTANCE:

FORM(S) OF COMPILATION: 3 X 5 INDEX CARDS

KEY REFERENCE(S)  
MEISEL, D.D. - STUDIES OF VISUAL DOUBLE STARS I., ASTRON. J. 73, 350, 1968. THIS CONTAINS A PARTIAL LISTING OF STARS SELECTED FROM THIS LIST.

DESCRIPTION OF MACHINE-READABLE DATA FORMS  
NONE GIVEN

REMARKS  
TRANSCRIBED DATA ARE MAINLY TAKEN FROM INDEX CATALOGUE OF DOUBLE STARS. CLUSTER, ASSOCIATION MEMBERSHIPS ARE FROM THE NGC CATALOGUE. LOAN OF ORIGINAL MATERIAL FOR KEYPUNCHING MAY BE ARRANGED

#### DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. DAVID D. MEISEL	DEPARTMENT OF PHYSICS AND ASTRONOMY NEW YORK STATE UNIVERSITY COLLEGE GENESEO, NY 14454	LOAN FOR COPYING
OTTO FRANZ	LASP UNIVERSITY OF COLORADO BOULDER, COLORADO 80309	PRELIMINARY VERSION

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 \* 027 \*  
 \*\*\*\*\*

DR. DAVID D. MEISEL                      TELEPHONE: (716) 245-5285  
 DEPARTMENT OF PHYSICS AND ASTRONOMY  
 NEW YORK STATE UNIVERSITY COLLEGE  
 GENESEO, NY  
 14454

\*\*\*\*\*

\* DATA FILE 027B \*\*\*\*\* LYMAN-ALPHA AND OI 1306 LINES IN B7-A0 STARS \*\*\*\*\*

\*\*\*\*\*  
 16 ENTRIES                      100% COMPLETE                      PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1975)  
 8 OBJECTS                      100% MACHINE-READABLE                      DATES OF OBSERVATION: 1974 TO 1976

OBJECT CLASSES

B STARS  
 BETA CEPHEI STARS  
 EARLY-TYPE STARS

DATA CATEGORIES

SPECTROPHOTOMETRY  
 ULTRAVIOLET ASTRONOMY

DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
ITEM				
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	TRANSCR			EPOCH 1900 AND 1975
IDENTIFICATION				
HD CATALOGUE NUMBER				
RADIATION				
EMISSION/ABSORPTION LINES	ORIGINAL	RAW	100	SOME REDUCED
RANGE OF COVERAGE				
RIGHT ASCENSION:				GALACTIC LATITUDE:
DECLINATION:				GALACTIC LONGITUDE:
SPECTRAL TYPES: B7-A0				MAGNITUDES: TO 4.0 (VISUAL OR PHOTOGRAPHIC)
OTHER:				DISTANCE:

FORM(S) OF COMPILATION: 3 DIGITAL MAGNETIC TAPES  
 500 PAGES OF COMPUTER PRINTOUT

KEY REFERENCE(S)  
 COPERNICUS TELESCOPE DATA

DESCRIPTION OF MACHINE-READABLE DATA FORMS  
 NONE GIVEN

REMARKS  
 NONE GIVEN

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. DAVID D. MEISEL	DEPARTMENT OF PHYSICS AND ASTRONOMY NEW YORK UNIVERSITY COLLEGE GENESEO, NY 14454	BLANK TAPES
DR. THEODORE P. SNOW	LASP UNIVERSITY OF COLORADO BOULDER, CO 80309	BLANK TAPES

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 \* 027 \*  
 \*\*\*\*\*

DR. DAVID D. MEISEL                      TELEPHONE: (716) 245-5285  
 DEPARTMENT OF PHYSICS AND ASTRONOMY  
 NEW YORK STATE UNIVERSITY COLLEGE  
 GENESEO, NY  
 14454

\*\*\*\*\*  
 \* DATA FILE 027C \*\*\*\*\*  
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NEAR INFRA-RED SPECTRA OF EARLY-TYPE STARS

180 ENTRIES  
 87 OBJECTS

10% COMPLETE  
 N/AZ MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1975)  
 DATES OF OBSERVATION: 1973 TO

## OBJECT CLASSES

## DATA CATEGORIES

INFRARED ASTRONOMY  
 OPTICAL ASTRONOMY  
 RADIAL VELOCITIES  
 ROTATIONAL VELOCITIES  
 SPECTROPHOTOMETRY  
 SPECTROSCOPY

DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)		100	EPOCH 1900 AND 1975
IDENTIFICATION				
HD CATALOGUE NUMBER			100	
CLUSTER, ASSOCIATION MEMBERSHIP	TRANSCR (REMARKS)		100	
REMARKS			100	PECULIARITIES, MULTIPLICITY, ETC..
RADIATION				
MAGNITUDES, PHOTOELECTRIC	TRANSCR (REMARKS)		100	U, B, V, L, H, K
MAGNITUDES, OTHER	ORIGINAL	RAW	100	CONTINUUM MEASUREMENTS AT 1 MICRON
SPECTRAL CLASS	TRANSCR (REMARKS)		100	
EMISSION/ABSORPTION LINES	ORIGINAL	REDUCED	100	(ALSO RAW) 7000 A TO 9000 A; 40 A/MM AND 1.1 A/MM
VARIABLE STARS				
INDIVIDUAL OBSERVATIONS			100	
OTHER				
ROTATIONAL VELOCITY	ORIGINAL	RAW	100	
RADIAL VELOCITY	ORIGINAL	RAW	100	
RANGE OF COVERAGE				
RIGHT ASCENSION:	0 TO 24 HOURS			GALACTIC LATITUDE:
DECLINATION:	-20 TO +90 DEGREES			GALACTIC LONGITUDE:
SPECTRAL TYPES:	05 TO A3			MAGNITUDES:
OTHER:				DISTANCE:
FORM(S) OF COMPILATION:	MICROPHOTOMETRY			
	BOUND BOOK			
KEY REFERENCE(S)				
	MEISEL, D.D. AND BERG, R.A. - HELIUM 10830 IN ALPHA VIRGINIS A AND B, ASTROPHYS. J., 198, 551, 1975.			
	MEISEL, D.D. - 1 MICRON IMAGE-TUBE SPECTRA OF GAMMA CASSIOPEIAE AND ZETA TAURI, PUB. ASTRON. SOC. PACIFIC, 83, 49, 1971.			
DESCRIPTION OF MACHINE-READABLE DATA FORMS				
	NONE GIVEN			
REMARKS				
	RIGHT ASCENSION AND DECLINATION ARE TRANSCRIBED FROM THE AMERICAN EPHEMERIS AND NAUTICAL ALAMANAC.			
	IDENTIFICATION AND RADIATION DATA ITEM ARE FROM THE YALE BRIGHT STAR CATALOGUE. THE PRIME DATA IN THIS CATALOGUE CONSIST OF FABRY-PEROT SCANS AND I-R, SPECTRA.			
DISTRIBUTORS OF THE DATA SET				
NAME	DR. DAVID D MEISEL	ADDRESS	DEPARTMENT OF PHYSICS AND ASTRONOMY	CONDITIONS AND COMMENTS
			NEW YORK STATE UNIVERSITY COLLEGE	EXCHANGE
			GENESEO, NY 14454	



\*\*\*\*\*  
 \* 027 \*  
 \*\*\*\*\*

DR. DAVID D. MEISEL  
 DEPARTMENT OF PHYSICS AND ASTRONOMY  
 NEW YORK STATE UNIVERSITY COLLEGE  
 GENESEO, NY  
 14454

TELEPHONE: (716) 245-5285

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\* DATA FILE 027D \*\*\*\*\* NEAR INFRA-RED LINE PROFILES IN EARLY-TYPE STARS \*\*\*\*\*

\*\*\*\*\*

180 ENTRIES  
 87 OBJECTS

10% COMPLETE  
 N/A% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1975)  
 DATES OF OBSERVATION: 1973 TO

# OBJECT CLASSES

A STARS  
 AM STARS  
 AP STARS  
 ALGOL SYSTEMS  
 B STARS  
 BP STARS  
 BE STARS  
 BETA CEPHEI STARS  
 BETA CMA STARS  
 BETA LYRAE STARS  
 BINARIES  
 EARLY-TYPE STARS  
 ECLIPSING VARIABLES  
 EMISSION STARS  
 O STARS  
 OB STARS  
 OF STARS  
 ROTATING STARS  
 SHELL STARS  
 SPECTROSCOPIC BINARIES  
 SPECTRUM VARIABLES  
 VARIABLES  
 WOLF-RAYET STARS

# DATA CATEGORIES

INFRARED ASTRONOMY  
 PHOTOMETRY  
 RADIAL VELOCITIES  
 ROTATIONAL VELOCITIES  
 SPECTROPHOTOMETRY  
 SPECTROSCOPY

# DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)			EPOCH 1900 AND 1975
IDENTIFICATION				
HD CATALOGUE NUMBER				
CLUSTER, ASSOCIATION MEMBERSHIP	TRANSCR (REMARKS)			
REMARKS	TRANSCR			(ALSO ORIGINAL) PECULIARITIES, MULTIPLICITY, ETC...
RADIATION				
MAGNITUDES, PHOTOELECTRIC	TRANSCR (REMARKS)		100	UBV, L, H, K
MAGNITUDES, OTHER	ORIGINAL	RAW	100	CONTINUUM MEASUREMENTS AT 1 MICRON
SPECTRAL CLASS	TRANSCR (REMARKS)		100	
EMISSION/ABSORPTION LINES	ORIGINAL	RAW		
VARIABLE STARS				
INDIVIDUAL OBSERVATIONS			100	(ALSO REDUCED) 10830 AND 11940 AT 1.1 A
OTHER				
ROTATIONAL VELOCITY	ORIGINAL	RAW	100	
RADIAL VELOCITY	ORIGINAL	RAW	100	

# RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES: O5 TO A3  
 OTHER:

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES: TO 4.5 (INFRA-RED)  
 DISTANCE:

FORM(S) OF COMPILATION: GRAPHS  
 BOUND BOOK

# KEY REFERENCE(S)

MEISEL, D.D. AND BERG, R.A. - HELIUM 10830 IN ALPHA VIRGINIS A AND B, ASTROPHYS. J., 198, 551, 1975.  
 MEISEL, D.D. - 1 MICRON IMAGE-TUBE SPECTRA OF GAMMA CASSIOPEIAE AND ZETA TAURI, PUB. ASTRON. SOC. PACIFIC, 83, 49, 1971.

DESCRIPTION OF MACHINE-READABLE DATA FORMS  
 NONE GIVEN

# REMARKS

RIGHT ASCENSION AND DECLINATION ARE TRANSCRIBED FROM THE AMERICAN EPHEMERIS AND NAUTICAL ALMANAC.  
 IDENTIFICATION AND RADIATION DATA ITEM ARE FROM THE YALE BRIGHT STAR CATALOGUE. THE PRIME DATA IN THIS CATALOGUE CONSIST OF FABRY-PEROT SCANS.

# DISTRIBUTORS OF THE DATA SET

NAME  
 DR. DAVID D. MEISEL

ADDRESS  
 DEPARTMENT OF PHYSICS AND ASTRONOMY  
 NEW YORK STATE UNIVERSITY COLLEGE  
 GENESEO, NY 14454

CONDITIONS AND COMMENTS  
 GRAPHIC AT PRESENT

\*\*\*\*\*  
 \* 028 \*  
 \*\*\*\*\*

DR. SHIRO NISHIMURA  
 TOKYO ASTRONOMICAL OBSERVATORY  
 MITAKA  
 TOKYO 181  
 JAPAN

TELEPHONE:

\*\*\*\*\*  
 \* DATA FILE 028A \*  
 \*\*\*\*\*

CATALOGUE OF BRIGHT STARS (REVISED VERSION)

\*\*\*\*\*

9110 ENTRIES  
 9110 OBJECTS

100% COMPLETE  
 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1900)  
 DATES OF OBSERVATION:

OBJECT CLASSES		DATA CATEGORIES		APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA			
ITEM					
POSITIONAL DATA					
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)		100	EPOCH 1900 AND 2000	
GALACTIC COORDINATES			100	SYSTEM II	
ANNUAL VARIATION	TRANSCR (REMARKS)		100		
PROPER MOTION (R.A., DEC.)	TRANSCR (REMARKS)		100	ERROR NOT SPECIFIED	
PARALLAX, TRIGONOMETRIC	TRANSCR (REMARKS)		100		
IDENTIFICATION					
RUNNING NO. IN SOURCE CATALOGUE			100		
HD CATALOGUE NUMBER			100		
DM CATALOGUE NUMBER			100	BD COD CPD	
OTHER IDENTIFICATION NUMBERS				GC, GCTP, GCSRV, DOUBLE STAR C, VAR STAR C	
REMARKS					
RADIATION					
PHOTOMETRIC SYSTEM(S)				BV	
MAGNITUDES, PHOTOELECTRIC	TRANSCR (REMARKS)		100		
SPECTRAL CLASS	TRANSCR (REMARKS)		100		
LUMINOSITY CLASS	TRANSCR (REMARKS)				
COLORS	TRANSCR (REMARKS)				
MULTIPLE SYSTEMS					
MULTIPLICITY OF SYSTEM	TRANSCR (REMARKS)				
SEPARATION (VISUAL BINARIES)	TRANSCR (REMARKS)				
OTHER					
RADIAL VELOCITY	TRANSCR (REMARKS)				
RANGE OF COVERAGE					
RIGHT ASCENSION:	0 TO 24 HOURS			GALACTIC LATITUDE:	
DECLINATION:	-90 TO +90 DEGREES			GALACTIC LONGITUDE:	
SPECTRAL TYPES:				MAGNITUDES:	TO 6.5 (VISUAL OR PHOTOGRAPHIC)
OTHER:				DISTANCE:	
FORM(S) OF COMPILATION:	1 DIGITAL MAGNETIC TAPE				
KEY REFERENCE(S)					
ERRORS FOUND IN THE MAGNETIC TAPE VERSION OF THE CATALOGUE OF BRIGHT STARS (S. NISHIMURA, 1977, PRIVATE CIRCULATION).					
DESCRIPTION OF MACHINE-READABLE DATA FORMS					
THIS CATALOG IS AVAILABLE ON 9-TRACK, 1600 BPI, EBCDIC MAGNETIC TAPE, GENERATED ON A FACOM 230-58 COMPUTER.					
REMARKS					
ERRORS, WHICH HAVE BEEN FOUND BY INTERNAL CHECK OF ENTRIES IN THE MAGNETIC TAPE VERSION OF YALE CATALOGUE OF BRIGHT STARS, ARE REVISED. SOME EDITING PROCESSES, E.G. MERGING OF LEFT AND RIGHT PAGES, EXPLICIT REPRESENTATION OF DURCHMUSTERUNG ZONE, ARE DONE. CROSS CHECKS WITH OTHER CATALOGUES (GC, HD, ETC) ARE NOW IN PROGRESS.					
DISTRIBUTORS OF THE DATA SET					
NAME	ADDRESS			CONDITIONS AND COMMENTS	
DR. SHIRO NISHIMURA	TOKYO ASTRONOMICAL OBSERVATORY				
	MITAKA				
	TOKYO 181				
	JAPAN				

\*\*\*\*\*  
 \* 029 \*  
 \*\*\*\*\*

DR. THORNTON PAGE  
 CODE TC3  
 JOHNSON SPACE CENTER  
 HOUSTON, TX  
 77058

TELEPHONE: (713) 483-3728

\*\*\*\*\*

\* DATA FILE 029A \*\*\*\*\* STAR IMAGES, COORDINATES, FAR-UV MAGNITUDES \*\*\*\*\*

\*\*\*\*\* 10000 ENTRIES 20% COMPLETE PRIMARY SEQUENCE OF ORDERING: FRAME Y-COORDINATE  
 10000 OBJECTS 50% MACHINE-READABLE DATES OF OBSERVATION: 1972 TO

OBJECT CLASSES

A STARS  
 B STARS  
 BLUE OBJECTS  
 EARLY-TYPE STARS  
 EMISSION NEBULAE  
 FAR-UV SOURCES  
 GALAXIES  
 O STARS  
 OB STARS  
 PLANETARY NEBULAE

DATA CATEGORIES

PHOTOMETRY  
 ULTRAVIOLET ASTRONOMY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	TRANSCR (SAO)	REDUCED	100	EPOCH 1950
RECTANGULAR COORDINATES	ORIGINAL	REDUCED	100	
IDENTIFICATION				
RUNNING NO. IN SOURCE CATALOGUE			100	
SAO CATALOGUE NUMBER			50	
NGC, IC CATALOGUE NUMBER			10	
NO. OF OBS. PER OBJECT OF MEAS.			100	
CHARTS AVAILABLE			100	
RADIATION				
PHOTOMETRIC SYSTEM(S)				1100 TO 1600 A AND 1250 TO 1600 A
MAGNITUDES, PHOTOGRAPHIC	TRANSCR (SAO)		50	
MAGNITUDES, OTHER	ORIGINAL	REDUCED	100	FAR-UV MAGNITUDE
FLUX	ORIGINAL	REDUCED	100	1100-1600 A
COLORS	ORIGINAL	REDUCED	100	TWO BAND-PASSES, 1100-1600 A AND 1250-1600 A

RANGE OF COVERAGE

RIGHT ASCENSION: 3 TO 24 HOURS  
 DECLINATION: -80 TO +50 DEGREES  
 SPECTRAL TYPES: O, B, A STARS  
 OTHER: FAR-UV SOURCES

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES: 1.0 TO 10.0 (VISUAL OR PHOTOGRAPHIC)  
 DISTANCE:

FORM(S) OF COMPILATION: 25 DIGITAL MAGNETIC TAPES  
 1 BOUND BOOK

KEY REFERENCE(S)

- APOLLO 16 PRELIM. SCI. REPT., NASA-SP-315, CHAP. 13, 1972. HILL, R.E. - USER'S GUIDE TO UV CAMERA DATA ANALYSIS PROGRAM, LOCKHEED ELEC. CO., TM-6040, JUNE 1976.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

THESE DATA ARE AVAILABLE ON 7-TRACK, 800 BPI, BINARY, MAGNETIC TAPES CREATED ON A UNIVAC 1108 COMPUTER, ALL IBM COMPATIBLE. ORIGINAL DATA FROM PDS MICRODENSITOMETER, RANGE ZERO TO 5.000, RECORDED IN UNITS OF 0.010 AND LATER LINEARIZED BY AN EMPIRICAL FORMULA THAT INCREASED HIGHER READINGS TO BE PROPORTIONAL TO FLUX.

REMARKS

ORIGINAL PHOTOS WERE TAKEN WITH S201 FAR-UV CAMERA AT APOLLO-16 LANDING SITE ON MOON. CAMERA WAS F/1 SCHMIDT OF 7.5-CM APERTURE WITH TWO CORRECTOR PLATES: LIF FOR 1100-1600A AND CAF2 FOR 1250-1600 A. RESOLUTION IS ABOUT 3 ARC-MIN. FINAL CATALOGUE WILL BE ORDERED BY RIGHT ASCENSION, GIVING SAO NUMBER (IF ANY), NGC NUMBER (IF ANY), FAR-UV FLUX 1100-1600 A, FLUX 1250-1600 A, FAR-UV MAGNITUDE, REMARKS. FLUXES CAN BE DERIVED FROM MAGNETIC TAPES.

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
MR. WILLIAM VALENTE	CODE 601 NATIONAL SPACE SCIENCE DATA CENTER GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SUPPLY BLANK MAGNETIC TAPE
R. HILL	CODE B-14 LOCKHEED ELECTRONICS CO., INC. 16811 EL CAMINO REAL HOUSTON, TX 77058	THE COST OF COPYING THE DATA
DR. THORNTON PAGE	CODE TC3 JOHNSON SPACE CENTER HOUSTON, TX 77058	THE COST OF COPYING THE DATA

\*\*\*\*\*  
\* 029 \*  
\*\*\*\*\*

DR. THORNTON PAGE  
CODE TC3  
JOHNSON SPACE CENTER  
HOUSTON, TX  
77058

TELEPHONE: (713) 483-3726

\*\*\*\*\*  
\* DATA FILE 029B \*\*\*\*\* CONTOUR PLOTS OF DENSITIES OF FAR-UV PHOTOS \*\*\*\*\*  
\*\*\*\*\*

45 ENTRIES 50% COMPLETE PRIMARY SEQUENCE OF ORDERING: FRAME NUMBER  
N/A OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION: 1972 TO

OBJECT CLASSES  
-----  
A STARS  
B STARS  
BLUE OBJECTS  
CLUSTERS OF GALAXIES  
EARLY-TYPE STARS  
EMISSION NEBULAE  
FAR-UV SOURCES  
GALAXIES  
O STARS  
OB STARS  
SUPERNOVA REMNANTS

DATA CATEGORIES  
-----  
PHOTOMETRY  
ULTRAVIOLET ASTRONOMY

DATA ITEMS APPEARING IN THE FILE		TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
-----					
ITEM					
-----					
POSITIONAL DATA					
RIGHT ASCENSION, DECLINATION	TRANSCR (SAO)	PREDICTED	10	EPOCH 1950	
RECTANGULAR COORDINATES	ORIGINAL	REDUCED	100	CONTOUR PLOTS IN X,Y COORD. OF PDS SCANS	
IDENTIFICATION					
SAO CATALOGUE NUMBER			10		
NGC, IC CATALOGUE NUMBER			10		
NO. OF OBS. PER OBJECT OF MEAS.			100		
CHARTS AVAILABLE			100		
REMARKS					
OTHER (SEE COMMENTS)	TRANSCR	REDUCED	50	20-DEGREE FIELDS WITH CENTER COORD. AND P.A. HENIZE EMISSION REGIONS IN LMC	
RADIATION					
PHOTOMETRIC SYSTEM(S)					
FLUX	ORIGINAL	REDUCED	100	1100 TO 1600 A AND 1250 TO 1600 A	
COLORS	ORIGINAL	REDUCED	100	FAR-UV, 100 TO 1600 A TWO BAND-PASSES: 1100-1600 A AND 1250-1600 A	

RANGE OF COVERAGE

RIGHT ASCENSION: 3 TO 24 HOURS	GALACTIC LATITUDE:
DECLINATION: -80 TO +50 DEGREES	GALACTIC LONGITUDE:
SPECTRAL TYPES: O, B, A	MAGNITUDES: 1.0 TO 10.0 (VISUAL OR PHOTOGRAPHIC)
OTHER:	DISTANCE:

FORM(S) OF COMPILATION: 25 DIGITAL MAGNETIC TAPES  
46 CONTOUR PLOTS LMC AT 0.15-DEGREES/CM  
150 CONTOUR PLOTS AT 0.29-DEGREES/CM  
180 CONTOUR PLOTS AT 0.59-DEGREES/CM  
45 CONTOUR PLOTS AT 1.18-DEGREES/CM

## KEY REFERENCE(S)

- APOLLO-16 PRELIM. SCI. REPT., NASA-SP-315, CHAP. 13, 1972. PAGE T. AND CARRUTHERS, G.R. -  
APOLLO-16 FAR-UV IMAGERY AND SPECTRA OF LARGE MAGELLANIC CLOUD, COSPAR XIX MEETING, 15 JUNE 1976.  
HILL, R.E. - USER'S GUIDE TO UV CAMERA DATA ANALYSIS PROGRAM, LOCKHEED ELEC. CO., TM-6040, JUNE 1976.

## DESCRIPTION OF MACHINE-READABLE DATA FORMS

THESE DATA ARE AVAILABLE ON 7-TRACK, 800 BPI, BINARY, MAGNETIC TAPES CREATED ON A UNIVAC 1108  
COMPUTER. ORIGINAL DATA FROM PDS MICRODENSITOMETER, RANGE ZERO TO 5.000, RECORDED IN UNITS OF 0.010  
AND LATER LINEARIZED BY AN EMPIRICAL FORMULA THAT INCREASED HIGHER READINGS TO BE PROPORTIONAL TO  
FLUX.

## REMARKS

ORIGINAL PHOTOS WERE TAKEN WITH S201 FAR-UV CAMERA AT APOLLO-16 LANDING SITE ON MOON. CAMERA WAS F/1  
SCHMIDT OF 7.5-CM APERTURE WITH TWO CORRECTOR PLATES: LIF FOR 1100-1600 A AND CAF2 FOR 1250-1600 A.  
RESOLUTION IS ABOUT 3 ARC MIN. FROM THE DATA TAPES, CONTOUR PLOTS CAN BE DERIVED AT ANY DESIRED  
SCALE AND CONTOUR INTERVAL. OTHER RANGES OR RESTRICTIONS OF COVERAGE INCLUDE EARTH, GEORCONA,  
NEBULAE, IN TEN 20-DEGREE CIRCULAR FIELDS.

## DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
MR. WILLIAM VALENTE	CODE 601 NATIONAL SPACE SCIENCE DATA CENTER GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SUPPLY BLANK MAGNETIC TAPE
R. HILL	CODE B-14 LOCKHEED ELECTRONICS CO., INC. 16811 EL CAMINO REAL HOUSTON, TX 77058	COPY COST
DR. THORNTON PAGE	CODE TC3 JOHNSON SPACE CENTER HOUSTON, TX 77058	COPY COST
DR. G. R. CARRUTHERS	CODE 7124 NAVAL RESEARCH LAB WASHINGTON, DC 20375	COPY COST

\*\*\*\*\*  
 \* 030 \*  
 \*\*\*\*\*

DR. ROBERT A. R. PARKER  
 CODE CB  
 JOHNSON SPACE CENTER  
 HOUSTON, TX  
 77058

TELEPHONE: (713) 483-2411

\*\*\*\*\*

\* DATA FILE 030A \*\*\*\*\* EMISSION LINE SURVEY OF THE GALACTIC PLANE \*\*\*\*\*

\*\*\*\*\*

1080 ENTRIES  
 216 OBJECTS

66% COMPLETE  
 N/A: MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: GALACTIC LONGITUDE  
 DATES OF OBSERVATION: 1975 TO 1978

# OBJECT CLASSES

EMISSION NEBULAE  
 H II REGIONS  
 REFLECTION NEBULAE  
 SUPERNOVA REMNANTS

# DATA CATEGORIES

OPTICAL ASTRONOMY

# DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
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# RANGE OF COVERAGE

RIGHT ASCENSION:  
 DECLINATION:  
 SPECTRAL TYPES:  
 OTHER: SEE REMARKS

GALACTIC LATITUDE: -9 TO +9 DEGREES  
 GALACTIC LONGITUDE: 0 TO 359 DEGREES  
 MAGNITUDES:  
 DISTANCE:

# FORM(S) OF COMPILATION: PRINTS

KEY REFERENCE(S)  
 NONE GIVEN

DESCRIPTION OF MACHINE-READABLE DATA FORMS  
 NONE GIVEN

# REMARKS

SPECIFICATIONS OF COVERAGE INCLUDE WAVELENGTHS 6730 (SII); 6570 (NII) + H-ALPHA; 5007 (OIII); 4861 H-BETA; 4215 CONTINUUM. THIS CATALOGUE IS A WIDE FIELD (7 DEGREES) MODERATE RESOLUTION (APPROX. 30 ARCSEC) NARROW SPECTRAL BAND PHOTOGRAPHIC SURVEY RUNNING PRIMARILY AROUND THE GALACTIC PLANE. ITS PRIMARY PURPOSE IS TO LOOK AT LARGE SCALE IONIZATION STRUCTURE OF THE GALACTIC PLANE WHICH HAS DICTATED THE CHOICE OF FILTERS AS (SII), (OIII), H-BETA, AND CONTINUUM.

# DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. ROBERT A. R. PARKER	CODE CB JOHNSON SPACE CENTER HOUSTON, TX 77058	NOT CURRENTLY AVAILABLE IN LARGE QUANTITIES
DR. T. R. GULL	NASA CODE 683 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	NOT CURRENTLY AVAILABLE IN LARGE QUANTITIES
ROBERT KIRSHNER	UNIVERSITY OF MICHIGAN ANN ARBOR, MI 48103	NOT CURRENTLY AVAILABLE IN LARGE QUANTITIES

\*\*\*\*\*  
 \* 031 \*  
 \*\*\*\*\*

DR. SIDNEY B. PARSONS  
 RLM 15.212  
 DEPARTMENT OF ASTRONOMY  
 UNIVERSITY OF TEXAS  
 AUSTIN, TX  
 78712

TELEPHONE: (512) 471-4414

\*\*\*\*\*

\* DATA FILE 031A \*\*\*\*\* CATALOGUE OF STARS OBSERVED BY EXPT. S-019 \*\*\*\*\*

\*\*\*\*\* 6465 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: HD NUMBER  
 6000 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION: 1973 TO 1974

OBJECT CLASSES		DATA CATEGORIES		
		SPECTROPHOTOMETRY SPECTROSCOPY ULTRAVIOLET ASTRONOMY		
DATA ITEMS APPEARING IN THE FILE		APPROX. % WITH THIS		
ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	GIVEN	COMMENTS AND OTHER INFORMATION
<b>POSITIONAL DATA</b>				
RIGHT ASCENSION, DECLINATION	ORIGINAL	REDUCED	5	EPOCH 1950
<b>IDENTIFICATION</b>				
HD CATALOGUE NUMBER			95	
DM CATALOGUE NUMBER			10	BD COD CPD
SAO CATALOGUE NUMBER			97	
NO. OF OBS. PER OBJECT OF MEAS.			100	
REMARKS			2	
OTHER (SEE COMMENTS)	ORIGINAL	REDUCED		1950 COORD. TO 1 MIN. IF NOT IN SAO
<b>RADIATION</b>				
MAGNITUDES, VISUAL	TRANSCR (SAO)		95	
SPECTRAL CLASS	TRANSCR (SAO)		95	
LUMINOSITY CLASS	TRANSCR		15	
OTHER (SEE COMMENTS)	ORIGINAL	RAW	100	SHORTEST UV WAVELENGTH RECORDED

#### RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -84 TO +76 DEGREES  
 SPECTRAL TYPES: W, O, B, A, F, G, K  
 OTHER: WAVELENGTH < 2800A

GALACTIC LATITUDE: -80 TO +80 DEGREES  
 GALACTIC LONGITUDE: 0 TO 360 DEGREES  
 MAGNITUDES: -1.0 TO 11.0 (VISUAL OR PHOTOGRAPHIC)  
 DISTANCE:

FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE  
 110 PAGES OF COMPUTER PRINTOUT

#### KEY REFERENCE(S)

HENIZE, K.G., J.D. WRAY, S.B. PARSONS, G.F. BENEDICT, Y. KONDO, AND F.G. O'CALLAGHAN - ADV. ASTRONAUT. SCI., 31, 837-847, 1975.

#### DESCRIPTION OF MACHINE-READABLE DATA FORMS

THIS CATALOGUE CAN BE COPIED ON 7-TRACK, BCD MAGNETIC TAPE GENERATED ON A CDC-6600 COMPUTER, WRITTEN AT 800 OR 556 BPI IN ODD PARITY.

#### REMARKS

LUMINOSITY CLASSES ARE TRANSCRIBED FROM SP. TYPE CATALOGUES AND LITERATURE. OBSERVATIONS IN THIS CATALOGUE ARE BASED ON IRREGULAR BANDS OF SKY (SEE FIG. 2 OF KEY REFERENCES). ALSO DATES AND EXPOSURE CODES ARE INCLUDED IN THE CATALOGUE.

#### DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. SIDNEY B. PARSONS	RLM 15.212 DEPARTMENT OF ASTRONOMY UNIVERSITY OF TEXAS AUSTIN, TX 78712	SUPPLY BLANK 7-TRACK MAGNETIC TAPE

\*\*\*\*\*  
 \* 031 \*  
 \*\*\*\*\*

DR. SIDNEY B. PARSONS  
 RLM 15.212  
 DEPARTMENT OF ASTRONOMY  
 UNIVERSITY OF TEXAS  
 AUSTIN, TX  
 78712

TELEPHONE: (512) 471-4414

\*\*\*\*\*

\* DATA FILE 031B \*\*\*\*\* MAGNETIC TAPE OF BIDELMAN'S SPECTRAL DATA FILE \*\*\*\*\*

\*\*\*\*\*

50000 ENTRIES  
 50000 OBJECTS

N/AZ COMPLETE  
 25% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 DATES OF OBSERVATION: TO 1972

OBJECT CLASSES

DATA CATEGORIES

ASTROMETRY  
 CROSS INDEX  
 INFRARED ASTRONOMY  
 OPTICAL ASTRONOMY  
 PARALLAXES  
 PHOTOMETRY  
 POLARIMETRY  
 PROPER MOTIONS  
 RADIAL VELOCITIES  
 ROTATIONAL VELOCITIES  
 SPACE MOTIONS  
 SPECTROPHOTOMETRY  
 SPECTROSCOPY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA RIGHT ASCENSION, DECLINATION PROPER MOTION (TOTAL)	TRANSCR (HD) TRANSCR (REMARKS)		100	1900 ERROR NOT SPECIFIED
IDENTIFICATION HD CATALOGUE NUMBER DM CATALOGUE NUMBER OTHER IDENTIFICATION NUMBERS				BD COD CPD
RADIATION MAGNITUDES, VISUAL MAGNITUDES, PHOTOGRAPHIC SPECTRAL CLASS LUMINOSITY CLASS	TRANSCR (REMARKS) TRANSCR (REMARKS) TRANSCR (REMARKS) TRANSCR (REMARKS)			FROM MISC. LIT., CATS. MISC. MISC. MISC.
VARIABLE STARS MAXIMUM AND MINIMUM MAGNITUDES OTHER (SEE COMMENTS)	TRANSCR (REMARKS)			FROM THE CATALOGUE OF VARIABLE STARS REFERENCES
MULTIPLE SYSTEMS TYPE OF MULTIPLICITY MULTIPLICITY OF SYSTEM OTHER (SEE COMMENTS)	TRANSCR (REMARKS) TRANSCR (REMARKS)			MISC. MISC. REFERENCES
OTHER RADIAL VELOCITY	TRANSCR (REMARKS)			

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES: ALL  
 OTHER:

GALACTIC LATITUDE: -90 TO +90 DEGREES  
 GALACTIC LONGITUDE: 0 TO 360 DEGREES  
 MAGNITUDES: -1.0 TO (VISUAL OR PHOTOGRAPHIC)  
 DISTANCE:

FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE

KEY REFERENCE(S)

NONE GIVEN

DESCRIPTION OF MACHINE-READABLE DATA FORMS

THIS CATALOGUE IS AVAILABLE ON 7-TRACK, BCD, MAGNETIC TAPE, CREATED ON A CDC 6600 COMPUTER, WRITTEN AT 556 OR 800 BPI.

REMARKS

COMPILATION OF REFERENCES AND KEY DATA, ESPECIALLY FROM OBSERVATORY PUBL., COMPLEMENTS STRASBOURG C.S.I. AND B.S.I.

DISTRIBUTORS OF THE DATA SET

NAME-----  
 DR. SIDNEY B. PARSONS

-----ADDRESS-----  
 RLM 15.212  
 DEPARTMENT OF ASTRONOMY  
 UNIVERSITY OF TEXAS  
 AUSTIN, TX 78712

-----CONDITIONS AND COMMENTS-----  
 AVAILABILITY DEPENDS ON FURTHER FUNDING,  
 UNTIL COMPLETED (PROBABLY SUMMER 1979)

\*\*\*\*\*  
 \* 032 \*  
 \*\*\*\*\*

DR. DANIEL M. POPPER  
 DEPARTMENT OF ASTRONOMY  
 UNIVERSITY OF CALIFORNIA  
 LOS ANGELES, CA  
 90024

TELEPHONE: (213) 825-3622

\*\*\*\*\*

\* DATA FILE 032A \*\*\*\*\* UBV OBSERVATIONS OF ECLIPSING BINARIES \*\*\*\*\*

\*\*\*\*\*

7785 ENTRIES  
 73 OBJECTS

100% COMPLETE  
 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: VAR. STAR, DATE  
 DATES OF OBSERVATION: 1972 TO 1973

OBJECT CLASSES

ECLIPSING VARIABLES

DATA CATEGORIES

OPTICAL ASTRONOMY  
 PHOTOMETRY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
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RADIATION MAGNITUDES, PHOTOELECTRIC	ORIGINAL	REDUCED	100	UBV SYSTEM
--	----------	---------	-----	------------

RANGE OF COVERAGE

RIGHT ASCENSION:  
 DECLINATION:  
 SPECTRAL TYPES:  
 OTHER: BINARIES OF INTEREST

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES:  
 DISTANCE:

FORM(S) OF COMPILATION: PUNCHED COMPUTER CARDS  
 COMPUTER PRINTOUT

KEY REFERENCE(S)  
 - ASTRONOM. J., 82, 216, 1977

DESCRIPTION OF MACHINE-READABLE DATA FORMS  
 NONE GIVEN

REMARKS

COVERAGE FOR 7576 ENTRIES OF 24 BINARIES RANGES FROM POOR TO GOOD. THE CATALOGUE DOESN'T CONTAIN  
 COVERAGE OF THE LIGHT CURVE FOR 209 ENTRIES OF 49 BINARIES.

DISTRIBUTORS OF THE DATA SET

NAME  
 DR. DANIEL M. POPPER

ADDRESS  
 DEPARTMENT OF ASTRONOMY  
 UNIVERSITY OF CALIFORNIA  
 LOS ANGELES, CA 90024

CONDITIONS AND COMMENTS  
 NEGOTIABLE



\*\*\*\*\*  
 \* 033 \*  
 \*\*\*\*\*

MR. KENT M. PRICE  
 STANFORD UNIVERSITY  
 STANFORD CA.  
 94305

TELEPHONE: (415) 497-3548

\*\*\*\*\*

\* DATA FILE 033A \*\*\*\*\* COMPACT GALACTIC H-II REGIONS AT 10.7 GHZ \*\*\*\*\*

\*\*\*\*\*  
 453 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 450 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION: 1975 TO 1976

OBJECT CLASSES  
 -----  
 H II REGIONS  
 INFRARED SOURCES  
 OH SOURCES

DATA CATEGORIES  
 -----  
 RADIO ASTRONOMY

DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
ITEM ----- POSITIONAL DATA RIGHT ASCENSION, DECLINATION GALACTIC COORDINATES	ORIGINAL	REDUCED	100 100	EPOCH 1950 SYSTEM II
IDENTIFICATION NGC, IC CATALOGUE NUMBER OTHER IDENTIFICATION NUMBERS NO. OF OBS. PER OBJECT OF MEAS.			15 100 100	SHARPLESS, MESSIER
RADIATION FLUX	ORIGINAL	REDUCED	100	MINIMUM FLUX .1 JY AT 10.7 GHZ
RANGE OF COVERAGE RIGHT ASCENSION: 8 TO 16 HOURS DECLINATION: -42 TO +70 DEGREES SPECTRAL TYPES: OTHER:				GALACTIC LATITUDE: -10 TO +10 DEGREES GALACTIC LONGITUDE: 11 TO 250 DEGREES MAGNITUDES: DISTANCE:

FORM(S) OF COMPILATION: 1300 PUNCHED COMPUTER CARDS

KEY REFERENCE(S)  
 PRICE, K.M. AND GRAF, W. - H-II DATA SETS, GLINT NO. 585.

DESCRIPTION OF MACHINE-READABLE DATA FORMS  
 NONE GIVEN

REMARKS  
 THIS DATA SET CONTAINS SOME HIGH LATITUDE COMPACT H II REGIONS. ANTENNA BEAMWIDTH 16 ARCSECONDS.

DISTRIBUTORS OF THE DATA SET	NAME	ADDRESS	CONDITIONS AND COMMENTS
MR. KENT M. PRICE		333 DURAND BUILDING STANFORD, CA 94305	REQUESTER PAYS PROCESSING AND SHIPPING

\*\*\*\*\*  
 \* 034 \*  
 \*\*\*\*\*

DR. ROBERT G. ROOSEN  
 ORG. 5741  
 SANDIA LABORATORIES  
 ALBUQUERQUE, NM  
 87115

TELEPHONE: (505) 264-7306

\*\*\*\*\*  
 \* DATA FILE 034A \*  
 \*\*\*\*\*

\*\*\*\*\* PHOTOELECTRIC SCANS OF THE GEGENSCHNEIN \*\*\*\*\*

100 ENTRIES 5% COMPLETE PRIMARY SEQUENCE OF ORDERING: DECLINATION (1950)  
 1 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION: 1969 TO 1971

OBJECT CLASSES		DATA CATEGORIES		
INTERPLANETARY DUST		PHOTOMETRY		
DATA ITEMS APPEARING IN THE FILE		APPROX. % WITH THIS		
ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA RIGHT ASCENSION, DECLINATION	ORIGINAL	RAW	100	EPOCH 1950
RADIATION MAGNITUDES, PHOTOELECTRIC	ORIGINAL	RAW	100	
RANGE OF COVERAGE		GALACTIC LATITUDE:		
RIGHT ASCENSION:		GALACTIC LONGITUDE:		
DECLINATION:		MAGNITUDES:		
SPECTRAL TYPES:		DISTANCE:		
OTHER:				
FORM(S) OF COMPILATION: 6 DIGITAL MAGNETIC TAPES				
1 OBSERVING LOG				
KEY REFERENCE(S)				
ROOSEN, R.G. - GEGENSCHNEIN AND INTERPLANETARY DUST OUTSIDE THE EARTH'S ORBIT, ICARUS, 13, 184-201, 1970. ROOSEN, R.G. - GEGENSCHNEIN, U. OF TEXAS, PH.D. DISSERTATION, UNIV. MICROFILMS ORDER NO. 70-18283.				
DESCRIPTION OF MACHINE-READABLE DATA FORMS				
THESE DATA CAN BE COPIED BY AN IBM 360 COMPUTER ON 7-TRACK, BCD, MAGNETIC TAPE WRITTEN AT 556 BPI.				
REMARKS				
NONE GIVEN				
DISTRIBUTORS OF THE DATA SET				
NAME		ADDRESS		CONDITIONS AND COMMENTS
DR. ROBERT G. ROOSEN		ORG. 5741 SANDIA LABORATORIES ALBUQUERQUE, NM 87115		NONE

\*\*\*\*\*  
 \* 035 \*  
 \*\*\*\*\*

DR. RICHARD E. ROTHSCILD  
 DEPT. OF PHYSICS C-011  
 UNIV. OF CALIFORNIA AT SAN DIEGO  
 LA JOLLA, CA.  
 92093

TELEPHONE: (714) 452-2512

\*\*\*\*\*  
 \* DATA FILE 035A \*  
 \*\*\*\*\*

\*\*\*\*\* X-RAY CATALOGUE \*\*\*\*\*

1400 ENTRIES  
 411 OBJECTS

100% COMPLETE  
 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 DATES OF OBSERVATION: 1962 TO 1976

OBJECT CLASSES  
 -----  
 X-RAY SOURCES

DATA CATEGORIES  
 -----  
 GAMMA RAY ASTRONOMY  
 X-RAY ASTRONOMY

DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA RIGHT ASCENSION, DECLINATION GALACTIC COORDINATES	ORIGINAL	REDUCED	100	EPOCH 1950
IDENTIFICATION RUNNING NO. IN SOURCE CATALOGUE HD CATALOGUE NUMBER NGC, IC CATALOGUE NUMBER OTHER IDENTIFICATION NUMBERS CLUSTER, ASSOCIATION MEMBERSHIP GALAXY MEMBERSHIP	ORIGINAL ORIGINAL	PREDICTED PREDICTED	100	SOMETIMES SOMETIMES SOMETIMES SOMETIMES SOMETIMES
RADIATION OTHER (SEE COMMENTS)	ORIGINAL	REDUCED	100	ENERGY RANGE OF OBSERVATION
VARIABLE STARS INDIVIDUAL OBSERVATIONS				SOMETIMES
RANGE OF COVERAGE RIGHT ASCENSION: 0 TO 24 HOURS DECLINATION: -90 TO +90 DEGREES SPECTRAL TYPES: OTHER:				GALACTIC LATITUDE: -90 TO +90 DEGREES GALACTIC LONGITUDE: 0 TO 360 DEGREES MAGNITUDES: DISTANCE:
FORM(S) OF COMPILATION: DIGITAL MAGNETIC TAPE PUNCHED COMPUTER CARDS DOCUMENT				
KEY REFERENCE(S) - NASA-GSFC, X-661-75-230, GREENBELT, MD, 1975.				
DESCRIPTION OF MACHINE-READABLE DATA FORMS THESE DATA ARE AVAILABLE ON HARD COPY ANALYZED OUTPUT AND 9-TRACK MAGNETIC TAPE GENERATED ON AN IBM 360/91 COMPUTER.				
REMARKS THIS CATALOGUE CONSISTS OF A LISTING OF ALL X-RAY OBSERVATIONS OF NON-SOLAR SOURCES WITH DETECTOR CHARACTERISTICS, DATES OF OBSERVATIONS, VEHICLE, REFERENCES AND COMMENTS. NO ACTUAL DATA FROM OBSERVATION. MAGNITUDES IN THIS CATALOGUE RANGE FROM 1 TO 17000 UHURU COUNTS.				

## DISTRIBUTORS OF THE DATA SET

NAME-----  
 DR. RICHARD E. ROTHSCILD

ADDRESS-----  
 DEPT OF PHYSICS C-011  
 UNIV. OF CALIFORNIA AT SAN DIEGO  
 LA JOLLA, CA. 92093

CONDITIONS AND COMMENTS  
 TAPE FORMAT NOT OPTIMIZED FOR EASY  
 RETRIEVAL WITHOUT SPECIFIC PROGRAM.  
 NOW TAKES 850K CORE.

\*\*\*\*\*  
\* 036 \*  
\*\*\*\*\*

DR. THEODORE P. SNOW, JR.  
UNIVERSITY OF COLORADO  
LAB ATMOSPHERIC/SPACE PHYSICS  
SPACE SCIENCE BUILDING  
UNIVERSITY OF COLORADO  
BOULDER, CO  
80309

TELEPHONE: (714) 286-6169

\*\*\*\*\*  
\* DATA FILE 036A \*  
\*\*\*\*\*

COPERNICUS U2 SPECTRA OF 60 O-B STARS \*\*\*\*\*

135000 ENTRIES  
60 OBJECTS

100% COMPLETE  
100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: EFFECTIVE TEMPERATURE  
DATES OF OBSERVATION: 1972 TO 1975

OBJECT CLASSES  
EARLY-TYPE STARS

DATA CATEGORIES  
SPECTROPHOTOMETRY  
ULTRAVIOLET ASTRONOMY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
IDENTIFICATION HD CATALOGUE NUMBER			100	
RADIATION				
MAGNITUDES, VISUAL	TRANSCR (REMARKS)	REDUCED	100	
MAGNITUDES, OTHER	TRANSCR (REMARKS)	REDUCED	100	BOLOMETRIC ABSOLUTE MAGNITUDES
SPECTRAL CLASS	TRANSCR (REMARKS)	REDUCED	100	
LUMINOSITY CLASS	TRANSCR (REMARKS)	REDUCED	100	
COLOR EXCESS	TRANSCR (REMARKS)	REDUCED	100	
DERIVED QUANTITIES				
TEMPERATURE	TRANSCR (REMARKS)	REDUCED	100	EFFECTIVE TEMPERATURE
OTHER				
ROTATIONAL VELOCITY	TRANSCR (REMARKS)	REDUCED	100	V SIN I
OTHER (SEE COMMENTS)	ORIGINAL	REDUCED	100	0.2A RES. SPECTRA, 1000 TO 1450 A

#### RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
DECLINATION: -90 TO +90 DEGREES  
SPECTRAL TYPES: O4 TO A1  
OTHER:

GALACTIC LATITUDE: -90 TO +90 DEGREES  
GALACTIC LONGITUDE: 0 TO 360 DEGREES  
MAGNITUDES: -1.4 TO 5.9 (VISUAL)  
DISTANCE: 2 TO 500 PC

FORM(S) OF COMPILATION: DIGITAL MAGNETIC TAPE  
1 BOUND BOOK

#### KEY REFERENCE(S)

SNOW, T.P., AND E.B. JENKINS - ASTROPHYS. J. SUPPL., 33, 269, 1977

#### DESCRIPTION OF MACHINE-READABLE DATA FORMS

THESE DATA, COPIED BY AN IBM 360/91 COMPUTER, ARE AVAILABLE ON 9 TRACK (PREFERRED) MAGNETIC TAPE WRITTEN AT 1600 OR 800 BPI. THE CATALOGUE IS ALSO AVAILABLE ON 7-TRACK, BCD MAGNETIC TAPE WRITTEN AT 800 OR 556 BPI.

#### REMARKS

THE RADIATION DATA ARE TRANSCRIBED FROM LESH, J.R. 1968, AP. J. SUPPL., 17, 371 AND LESH, J.R. 1972, A. AND A. SUPPL., 5, 129. EFFECTIVE TEMPERATURES ARE FROM CODE, A.D., DAVIS, J., BLESS, R.C., AND HANBURY BROWN, R. 1976, AP. J., 203, 417. ROTATIONAL VELOCITY DATA ARE FROM UESUGI, A. AND FUKUDA, I. 1970, CONTR. INST. AP. KWASAN OBS. UNIV. KYOTO, NO. 189.

#### DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
E. B. JENKINS	PRINCETON UNIVERSITY OBSERVATORY PEYTON HALL PRINCETON, NJ 08540	DATA REQUESTER WOULD BE EXPECTED TO COME TO PRINCETON IF POSSIBLE, AND TO SUPPLY A MAGNETIC TAPE IN ANY CASE.

\*\*\*\*\*  
 \* 036 \*  
 \*\*\*\*\*

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 LAB ATMOSPHERIC/SPACE PHYSICS  
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 UNIVERSITY OF COLORADO  
 BOULDER, CO  
 80309

TELEPHONE: (714) 286-6169

\*\*\*\*\*

\* DATA FILE 036B \*

\*\*\*\*\* CATALOGUE OF DIFFUSE INTERSTELLAR BAND STRENGTHS \*\*\*\*\*

\*\*\*\*\*

3000 ENTRIES  
 1500 OBJECTS

100% COMPLETE  
 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1900)  
 DATES OF OBSERVATION: 1937 TO 1975

OBJECT CLASSES		DATA CATEGORIES	
PUB. DIFFUSE BAND DATA		SPECTROSCOPY	
DATA ITEMS APPEARING IN THE FILE		APPROX. % WITH THIS GIVEN	
ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA			
GALACTIC COORDINATES		100	SYSTEM II
IDENTIFICATION			
HD CATALOGUE NUMBER		89	
DM CATALOGUE NUMBER		10	
OTHER (SEE COMMENTS)	ORIGINAL	1	SPECIAL ID NOS. ASSIGNED FOR PECULIAR OBJECTS
RADIATION			
MAGNITUDES, VISUAL	TRANSCR (REMARKS)	REDUCED	100
SPECTRAL CLASS	TRANSCR (REMARKS)	REDUCED	100
LUMINOSITY CLASS	TRANSCR (REMARKS)	REDUCED	100
COLOR EXCESS	TRANSCR (REMARKS)	REDUCED	100
POLARIZATION	TRANSCR (REMARKS)	REDUCED	50
OTHER (SEE COMMENTS)	TRANSCR (REMARKS)	REDUCED	5 WAVELENGTH OF MAX. POLARIZATION
OTHER			
OTHER (SEE COMMENTS)	TRANSCR (REMARKS)	REDUCED	100 DIFFUSE I.S. BAND STRENGTHS, RED. TO COMMON SYSTEM

WAVELENGTH OF MAX. POLARIZATION

DIFFUSE I.S. BAND STRENGTHS, RED. TO COMMON SYSTEM

#### RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES: O, B, A  
 OTHER:

GALACTIC LATITUDE: -90 TO +90 DEGREES  
 GALACTIC LONGITUDE: 0 TO 360 DEGREES  
 MAGNITUDES: 1.0 TO 11.0 (VISUAL)  
 DISTANCE: 10 TO 3000 PC

FORM(S) OF COMPILATION: DIGITAL MAGNETIC TAPE  
 COMPUTER PRINTOUT  
 BOUND BOOKS

#### KEY REFERENCE(S)

SNOW, T. P., YORK, D. G., AND WELTY, D. E. - ASTRON. J., 82, 113, 1977

#### DESCRIPTION OF MACHINE-READABLE DATA FORMS

THESE DATA, COPIED BY AN IBM 360/91 COMPUTER, ARE AVAILABLE ON 9 TRACK (PREFERRED) MAGNETIC TAPE WRITTEN AT 1600 OR 800 BPI. THE CATALOGUE IS ALSO AVAILABLE ON 7-TRACK, BCD MAGNETIC TAPE WRITTEN AT 800 OR 556 BPI.

#### REMARKS

THE POLARIZATION DATA ARE TRANSCRIBED FROM HILTNER, W. A. 1956, AP. J. SUPPL., 2, 389. THE WAVELENGTHS OF MAXIMUM POLARIZATION ARE FROM SERKOWSKI, K., MATHEWSON, D. S., AND FORD, V. L. 1975, AP. J., 196, 267. OTHER RADIATION DATA ARE FROM BLANCO, V. M., DEMERS, S., DOUGLAS, G. G., AND FITZGERALD, M. P. 1968, PUB. U. S. NAVAL OBS., 21, 1. DIFFUSE-BAND DATA ARE COLLECTED FROM THE LITERATURE FOR ALL STARS COVERED.

#### DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. D. G. YORK	PRINCETON UNIVERSITY OBSERVATORY PEYTON HALL PRINCETON, NJ 08540	REQUESTER WOULD BE EXPECTED TO COME TO PRINCETON IF POSSIBLE; AND TO SUPPLY TAPE IN ANY CASE.

\*\*\*\*\*  
 \* 037 \*  
 \*\*\*\*\*

DR. YERVANT TERZIAN  
 SPACE SCIENCES BUILDING  
 CORNELL UNIVERSITY  
 ITHACA, NY  
 14853

TELEPHONE: (607) 256-4935

\*\*\*\*\*

\* DATA FILE 037A \*\*\*\*\* PULSAR DATA \*\*\*\*\*

\*\*\*\*\*

147 ENTRIES  
 147 OBJECTS

100% COMPLETE  
 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 DATES OF OBSERVATION: 1967 TO 1976

OBJECT CLASSES

PULSARS

DATA CATEGORIES

POSITIONAL ASTRONOMY  
 RADIO ASTRONOMY  
 RADIO PHOTOMETRY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA RIGHT ASCENSION, DECLINATION GALACTIC COORDINATES PROPER MOTION (R.A., DEC.) PROPER MOTION (TOTAL)	TRANSCR	REDUCED		EPOCH 1950 ERROR NOT SPECIFIED ERROR NOT SPECIFIED ERROR NOT SPECIFIED
IDENTIFICATION OTHER IDENTIFICATION NUMBERS	ORIGINAL			
DERIVED QUANTITIES OTHER (SEE COMMENTS)	ORIGINAL	REDUCED		APPARENT AGE IN YEARS
VARIABLE STARS TYPE OF VARIABILITY PERIOD OF VARIABILITY OTHER (SEE COMMENTS)	TRANSCR TRANSCR	REDUCED AVERAGED		PULSAR PERIODS PULSAR EPOCHS
OTHER OTHER (SEE COMMENTS)				HALF-WIDTHS, DISPERSION AND PERIOD CHANGES AND REF.

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE: -90 TO +90 DEGREES  
 GALACTIC LONGITUDE: 0 TO 360 DEGREES  
 MAGNITUDES:  
 DISTANCE:

FORM(S) OF COMPILATION: IBM PUNCHED COMPUTER CARDS  
 COMPUTER PRINT OUT

KEY REFERENCE(S)

TERZIAN, Y. AND DAVIDSON, K - ASTROPHYS. AND SPACE SCI., 44, 479, 1976

DESCRIPTION OF MACHINE-READABLE DATA FORMS  
 NONE GIVEN

REMARKS

AN UP-TO-DATE COMPILATION OF PULSAR OBSERVATIONS.

DISTRIBUTORS OF THE DATA SET

NAME-----  
 DR. YERVANT TERZIAN

-----ADDRESS-----  
 SPACE SCIENCES BUILDING  
 CORNELL UNIVERSITY  
 ITHACA, NY 14853

-----CONDITIONS AND COMMENTS-----  
 NO CHARGE FOR PRINT OUT OR IBM PUNCHED  
 CARDS

\*\*\*\*\*  
 \* 038 \*  
 \*\*\*\*\*

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 UNIVERSITY OF MARYLAND  
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 20742

TELEPHONE: (301) 454-3527

\*\*\*\*\*  
 \* DATA FILE Q38A \*\*\*\*\*  
 \*\*\*\*\*

827 ENTRIES  
 827 OBJECTS

N/AZ COMPLETE  
 N/AZ MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 DATES OF OBSERVATION: 1890 TO 1973

OBJECT CLASSES  
 SPECTROSCOPIC BINARIES

DATA CATEGORIES  
 PHOTOMETRY  
 RADIAL VELOCITIES

# DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
------	----------------------------	-------------------	------------------------------------	--------------------------------

POSITIONAL DATA RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)			EPOCH 1950
---	-------------------	--	--	------------

IDENTIFICATION  
 RUNNING NO. IN SOURCE CATALOGUE  
 HD CATALOGUE NUMBER  
 OTHER IDENTIFICATION NUMBERS

RADIATION MAGNITUDES, VISUAL	TRANSCR (REMARKS)
MAGNITUDES, PHOTOGRAPHIC	TRANSCR (REMARKS)
MAGNITUDES, PHOTOELECTRIC	TRANSCR (REMARKS)
MAGNITUDES, OTHER	TRANSCR (REMARKS)
SPECTRAL CLASS	TRANSCR (REMARKS)
LUMINOSITY CLASS	TRANSCR (REMARKS)

VARIABLE STARS TYPE OF VARIABILITY	TRANSCR (REMARKS)
MAXIMUM AND MINIMUM MAGNITUDES	TRANSCR (REMARKS)
PERIOD OF VARIABILITY	TRANSCR (REMARKS)

MULTIPLE SYSTEMS TYPE OF MULTIPLICITY	TRANSCR (REMARKS)
MAX/MIN MAGNITUDES OF SYSTEM	TRANSCR (REMARKS)
EPHEMERIS	TRANSCR (REMARKS)
ORBITAL PARAMETERS	TRANSCR (REMARKS)
OTHER (SEE COMMENTS)	ORIGINAL

COMPONENT MASSES, MASS RATIO, AND SEPARATION

OTHER RADIAL VELOCITY	TRANSCR (REMARKS)
--------------------------	-------------------

RANGE OF COVERAGE  
 RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES: ALL  
 OTHER: NOT COMPLETE

GALACTIC LATITUDE: -90 TO +90 DEGREES  
 GALACTIC LONGITUDE: 0 TO 360 DEGREES  
 MAGNITUDES: -1.0 TO 16.0 (VISUAL OR PHOTOGRAPHIC)  
 DISTANCE: 0 TO 3000 PC

FORM(S) OF COMPILATION: LOOSE XEROXED SHEETS

KEY REFERENCE(S)  
 NONE GIVEN

DESCRIPTION OF MACHINE-READABLE DATA FORMS  
 NONE GIVEN

## REMARKS

THE TRANSCRIBED DATA IN THIS CATALOGUE ARE FROM CALCULATED COMPONENT MASSES AND SEPARATIONS OF ALL BINARIES IN THE SIXTH CATALOGUE (BATTEN A.H. 1967 PUBL. DOM. AP. OBS. 13, NO.8) AND ITS 1971 AND 1973 EXTENSIONS. IN ADDITION, THE DATA SET INCLUDES (A) UPDATED SPECTRAL TYPES, AND (B) CALCULATED MASSES FOR THE STARS AND THE SEMI-MAJOR AXES OF THEIR RELATIVE ORBITS, ROUGHLY EQUIVALENT TO THE STARS AVERAGE SEPARATIONS.

## DISTRIBUTORS OF THE DATA SET

NAME  
 DR. VIRGINIA L. TRIMBLE

ADDRESS  
 ASTRONOMY PROGRAM  
 UNIVERSITY OF MARYLAND  
 COLLEGE PARK, MD 20742

CONDITIONS AND COMMENTS  
 COST OF XEROXING

\*\*\*\*\*  
 \* 039 \*  
 \*\*\*\*\*

DR. ARTHUR R. UPGREN  
 VAN VLECK OBSERVATORY  
 WESLEYAN UNIVERSITY  
 MIDDLETOWN, CT  
 06457

TELEPHONE: (203) 347-9411

\*\*\*\*\*

\* DATA FILE 039A \*\*\*\*\* VYSSOTSKY CATALOGUES (1950.0) \*\*\*\*\*

\*\*\*\*\*  
 915 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: DECLINATION (1950)  
 915 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION: 1953 TO 1963

OBJECT CLASSES

K STARS  
 M STARS

DATA CATEGORIES

PROPER MOTIONS  
 SPECTROSCOPY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
<b>POSITIONAL DATA</b>				
RIGHT ASCENSION, DECLINATION	TRANSCR	REDUCED	100	EPOCH 1950
PROPER MOTION (R.A., DEC.)	TRANSCR	REDUCED	100	ERROR IS NOT SPECIFIED
PARALLAX, TRIGONOMETRIC	TRANSCR	REDUCED	30	
<b>IDENTIFICATION</b>				
RUNNING NO. IN SOURCE CATALOGUE	ORIGINAL		100	
HD CATALOGUE NUMBER	TRANSCR		20	
DM CATALOGUE NUMBER	TRANSCR		70	BD
<b>RADIATION</b>				
MAGNITUDES, VISUAL	ORIGINAL		100	
SPECTRAL CLASS	ORIGINAL	REDUCED	100	

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -33 TO +90 DEGREES  
 SPECTRAL TYPES: K-M DWARFS  
 OTHER:

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES:  
 DISTANCE:

FORM(S) OF COMPILATION: IBM PUNCHED COMPUTER CARDS

KEY REFERENCE(S)

VYSSOTSKY, A.N. - BASIC ASTRONOMICAL DATA, VOL. 5 IN STARS AND STELLAR SYSTEMS, 1963. VYSSOTSKY, A.N.  
 - ASTRON. J., 63, 77, 1958.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

NONE GIVEN

REMARKS

NONE GIVEN

DISTRIBUTORS OF THE DATA SET

NAME-----  
 DR. ARTHUR R. UPGREN

ADDRESS-----  
 VAN VLECK OBSERVATORY  
 WESLEYAN UNIVERSITY  
 MIDDLETOWN, CT 06457

CONDITIONS AND COMMENTS



\*\*\*\*\*  
 \* 039 \*  
 \*\*\*\*\*

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 06457

TELEPHONE: (203) 347-9411

\*\*\*\*\*  
 \* DATA FILE 039B \*  
 \*\*\*\*\*

\*\*\*\*\* NORTH GALACTIC POLAR REGION SURVEY \*\*\*\*\*

5755 ENTRIES 100% COMPLETE  
 5755 OBJECTS 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 DATES OF OBSERVATION: 1959 TO 1962

OBJECT CLASSES

DATA CATEGORIES

SPECTROSCOPY

DATA ITEMS APPEARING IN THE FILE

ITEM

TYPE (AND  
 MAJOR SOURCE)

NATURE  
 OF DATA

APPROX.  
 % WITH  
 THIS  
 GIVEN

COMMENTS AND OTHER INFORMATION

POSITIONAL DATA

RIGHT ASCENSION, DECLINATION  
 GALACTIC COORDINATES

ORIGINAL  
 ORIGINAL

REDUCED  
 REDUCED

100  
 80

SYSTEM II

IDENTIFICATION

RUNNING NO. IN SOURCE CATALOGUE ORIGINAL  
 HD CATALOGUE NUMBER  
 DM CATALOGUE NUMBER

100  
 20  
 60

BD

RADIATION

MAGNITUDES, VISUAL  
 MAGNITUDES, PHOTOGRAPHIC  
 SPECTRAL CLASS  
 LUMINOSITY CLASS

ORIGINAL  
 ORIGINAL  
 ORIGINAL

REDUCED  
 REDUCED  
 REDUCED

1  
 100  
 100  
 50

RANGE OF COVERAGE

RIGHT ASCENSION: 11 TO 24 HOURS  
 DECLINATION:  
 SPECTRAL TYPES: ALL TYPES  
 OTHER:

GALACTIC LATITUDE: +65 TO +90 DEGREES  
 GALACTIC LONGITUDE: 0 TO 360 DEGREES  
 MAGNITUDES: TO 13.0 (PHOTOGRAPHIC)  
 DISTANCE:

FORM(S) OF COMPILATION: IBM PUNCHED COMPUTER CARDS

KEY REFERENCE(S)

UPGREN, A.R. - ASTRON. J., 68, 194, 1963. UPGREN, A.R. - ASTRON. J., 67, 37, 1962.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

NONE GIVEN

REMARKS

NONE GIVEN

DISTRIBUTORS OF THE DATA SET

NAME

DR. ARTHUR R. UPGREN

ADDRESS

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 WESLEYAN UNIVERSITY  
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CONDITIONS AND COMMENTS

\*\*\*\*\*  
 \* 040 \*  
 \*\*\*\*\*

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\*\*\*\*\*  
 \* DATA FILE 040A \*  
 \*\*\*\*\*

\*\*\*\*\* INFRARED PHOTOMETRY OF M DWARF STARS \*\*\*\*\*

2000 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 145 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION: 1970 TO 1973

OBJECT CLASSES  
 -----  
 EMISSION STARS  
 FLARE STARS  
 LATE TYPE STARS  
 LOW-LUMINOSITY STARS  
 LOW-MASS STARS  
 M DWARFS  
 MAIN-SEQUENCE STARS  
 NEARBY STARS  
 POPULATION I STARS  
 POPULATION II STARS  
 SUBDWARFS

DATA CATEGORIES  
 -----  
 INFRARED ASTRONOMY  
 PHOTOMETRY

DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
ITEM ----- POSITIONAL DATA PARALLAX, TRIGONOMETRIC	TRANSCR (REMARKS)	AVERAGED	100	
IDENTIFICATION OTHER IDENTIFICATION NUMBERS			100	GLIESE, GICLAS, LUYTEN
NO. OF OBS. PER OBJECT OF MEAS.			90	FROM GICLAS
CHARTS AVAILABLE				
RADIATION PHOTOMETRIC SYSTEM(S)	ORIGINAL	AVERAGED	100	UBVRIHKL
MAGNITUDES, PHOTOELECTRIC	TRANSCR (REMARKS)	AVERAGED	100	HKL
MAGNITUDES, OTHER	TRANSCR (REMARKS)		100	UBVRI
SPECTRAL CLASS			100	
DERIVED QUANTITIES TEMPERATURE	ORIGINAL	REDUCED	22	
OTHER (SEE COMMENTS)	ORIGINAL	REDUCED	90	BOLOMETRIC MAGNITUDE
OTHER OTHER (SEE COMMENTS)	ORIGINAL (REMARKS)	REDUCED	80	POPULATION TYPES

RANGE OF COVERAGE  
 RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -30 TO +90 DEGREES  
 SPECTRAL TYPES: M  
 OTHER: SEE REMARKS  
 GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES: 4.0 TO 15.0 (VISUAL OR PHOTOGRAPHIC)  
 DISTANCE:

FORM(S) OF COMPILATION: 300 IBM PUNCHED COMPUTER CARDS  
 1 BOUND BOOK

KEY REFERENCE(S)  
 - LUMINOSITIES AND TEMPERATURES OF M DWARF STARS FROM INFRARED PHOTOMETRY, ASTRON. J., 79, 1056-1072,  
 1974. OLD DISK FLARE STARS, ASTRON. J., 79, 702-704, 1974.

DESCRIPTION OF MACHINE-READABLE DATA FORMS  
 NONE GIVEN

REMARKS  
 OTHER RANGES OR RESTRICTIONS OF COVERAGE INCLUDE PARALLAXES EQUAL TO OR GREATER THAN 0.050 ARCSEC.  
 THE TRANSCRIBED DATA ARE MAINLY FROM WOOLLEY, EPPS, PENSTON, AND POCOCK (1970) ROYAL OBS. ANNALS  
 NO.5. THE DERIVED POPULATION TYPES ARE: YOUNG DISK, OLD DISK, AND HALO.

# DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. GLENN J. VEEDER	MAIL STOP 183-501 JET PROPULSION LABORATORY 4800 OAK GROVE DR. PASADENA, CA 91103	

\*\*\*\*\*  
 \* 041 \*  
 \*\*\*\*\*

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 BOX 1149  
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 FLAGSTAFF, AZ  
 86002

TELEPHONE: (602) 774-6624

\*\*\*\*\*

\* DATA FILE 041A \*\*\*\*\* VISUAL BINARIES WITH VARIABLE COMPONENTS \*\*\*\*\*

\*\*\*\*\*

900 ENTRIES  
 900 OBJECTS

90% COMPLETE  
 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1900)  
 DATES OF OBSERVATION: 1800 TO 1976

OBJECT CLASSES

DATA CATEGORIES

ASTROMETRY  
 CROSS INDEX  
 OPTICAL ASTRONOMY  
 PARALLAXES  
 PHOTOMETRY  
 POSITIONAL ASTRONOMY  
 PROPER MOTIONS  
 SPECTROSCOPY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)	REDUCED	100	EPOCH 1900
PROPER MOTION (TOTAL)	TRANSCR (REMARKS)	REDUCED	25	ERROR NOT SPECIFIED
PARALLAX, TRIGONOMETRIC	TRANSCR (REMARKS)	REDUCED	10	ERROR NOT SPECIFIED

IDENTIFICATION

HD CATALOGUE NUMBER  
 DM CATALOGUE NUMBER  
 CLUSTER, ASSOCIATION MEMBERSHIP TRANSCR

RADIATION

MAGNITUDES, PHOTOELECTRIC  
 SPECTRAL CLASS  
 LUMINOSITY CLASS  
 COLORS

ORIGINAL  
 TRANSCR (REMARKS)  
 TRANSCR (REMARKS)  
 ORIGINAL

ALSO ORIGINAL

VARIABLE STARS

TYPE OF VARIABILITY  
 PERIOD OF VARIABILITY

TRANSCR (REMARKS)  
 TRANSCR (REMARKS)

ALSO ORIGINAL  
 ALSO ORIGINAL

MULTIPLE SYSTEMS

TYPE OF MULTIPLICITY  
 MULTIPLICITY OF SYSTEM  
 ORBITAL PARAMETERS

TRANSCR (REMARKS)  
 TRANSCR  
 TRANSCR (REMARKS)

ORBITAL CATALOGUE (ALSO ORIGINAL)

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES: ALL  
 OTHER:

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES:  
 DISTANCE:

FORM(S) OF COMPILATION: 1 BOUND BOOK

KEY REFERENCE(S)

WALKER, R.L. - PHOTOMETRY AND VARIABILITY OF DOUBLE STARS, AN INVITED PAPER PRESENTED AT IAU COLLOQUIUM 33, OXATEPEC MEXICO, 1975, IN PRESS.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

NONE GIVEN

REMARKS

VARIABLE - STAR DATA ITEMS ARE TRANSCRIBED FROM THE GENERAL CATALOGUE OF VARIABLE STARS, PROPER MOTION AND PARALLAX DATA ARE FROM THE AITKEN DOUBLE STAR CATALOGUE. OTHER TRANSCRIBED DATA ITEMS ARE MAINLY TAKEN FROM THE IDS CATALOGUE. THIS DATA SET PROVIDES QUICK READY REFERENCE FOR A LARGE NUMBER OF WELL KNOWN SYSTEMS.

DISTRIBUTORS OF THE DATA SET

NAME  
 MR. R. L. WALKER

ADDRESS  
 BOX 1149  
 US NAVAL OBSERVATORY  
 FLAGSTAFF STATION  
 FLAGSTAFF, AZ 86002

CONDITIONS AND COMMENTS  
 CATALOG NOT COMPLETE, BUT PRELIMINARY  
 DRAFTS AVAILABLE ON LIMITED BASIS.

\*\*\*\*\*  
 \* 042 \*  
 \*\*\*\*\*

DR. WAYNE H. WARREN, JR.  
 CODE 601  
 GODDARD SPACE FLIGHT CENTER  
 GREENBELT, MD  
 20771

TELEPHONE: (301) 982-2133

\*\*\*\*\*  
 \* DATA FILE 042A \*  
 \*\*\*\*\*

\*\*\*\*\* UBV OBSERVATIONS IN THE ORION-NEBULA REGION \*\*\*\*\*

358 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: BRUN NUMBER  
 136 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION: 1968 TO 1968

OBJECT CLASSES

DATA CATEGORIES

PHOTOMETRY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
<b>IDENTIFICATION</b>				
OTHER IDENTIFICATION NUMBERS			100	SEE KEY REFERENCES
OTHER (SEE COMMENTS)			30	WH, WARREN, W.H., JR (1975). PH.D. THESIS, INDIANA U.
<b>RADIATION</b>				
PHOTOMETRIC SYSTEM(S)				UBV
MAGNITUDES, PHOTOELECTRIC	ORIGINAL	REDUCED	100	V
COLORS	ORIGINAL	REDUCED	100	B-V, U-B
OTHER (SEE COMMENTS)	ORIGINAL	RAW	100	DATES OF OBSERVATION

RANGE OF COVERAGE

RIGHT ASCENSION: 5 TO 6 HOURS  
 DECLINATION: -5 TO -5 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES: 7.0 TO 13.0 (VISUAL OR PHOTOGRAPHIC)  
 DISTANCE:

FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE  
 358 PUNCHED COMPUTER CARDS  
 5 PAGES OF COMPUTER PRINTOUT

KEY REFERENCE(S)

BRUN, A. - PUBL. OBS. LYON 1, NO. 12, 1935. WARREN, W.H. JR. AND HESSER, J.E. - ASTROPHYS. J. SUPPL., 34, 115, 1977. WARREN, W.H. JR. AND HESSER, J.E. - BULL. AM. ASTRON. SOC. 8, 334, 1976.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

NONE GIVEN

REMARKS

INDIVIDUAL PHOTOELECTRIC UBV OBSERVATIONS OF FAINT STARS IN VICINITY OF ORION NEBULA INCLUDING DATES OF OBSERVATIONS.

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. WAYNE H. WARREN, JR.	CODE 601 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SUPPLY BLANK TAPE

\*\*\*\*\*  
\* 042 \*  
\*\*\*\*\*

DR. WAYNE H. WARREN, JR.  
CODE 601  
GODDARD SPACE FLIGHT CENTER  
GREENBELT, MD  
20771

TELEPHONE: (301) 982-2133

\*\*\*\*\*  
\*  
\* DATA FILE 042B \*  
\*\*\*\*\*

\*\*\*\*\* CATALOGUE OF UVBY-BETA PHOTOMETRY \*\*\*\*\*

15000 ENTRIES 60% COMPLETE PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1900)  
10000 OBJECTS N/A% MACHINE-READABLE DATES OF OBSERVATION: 1965 TO 1976

OBJECT CLASSES

DATA CATEGORIES

CROSS INDEX  
OPTICAL ASTRONOMY  
PHOTOMETRY

DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	TRANSCR (HD)	REDUCED	100	EPOCH 1900
IDENTIFICATION				
HD CATALOGUE NUMBER			90	
DM CATALOGUE NUMBER			95	BD, COD, CPD
NGC, IC CATALOGUE NUMBER			2	
OTHER IDENTIFICATION NUMBERS				HR(=BS); IDS
CLUSTER, ASSOCIATION MEMBERSHIP				
NO. OF OBS. PER OBJECT OF MEAS.			95	WHENEVER THESE REPORTED OR CAN BE OBTAINED
REMARKS				
RADIATION				
PHOTOMETRIC SYSTEM(S)				UVBY-BETA
MAGNITUDES, VISUAL	TRANSCR (HD)	REDUCED	20	WHEN NO PHOTOELECTRIC V MAGNITUDE EXISTS
MAGNITUDES, PHOTOGRAPHIC	TRANSCR (REMARKS)	REDUCED	1	WHEN NO V OR VISUAL MAGNITUDE EXISTS
MAGNITUDES, PHOTOELECTRIC	TRANSCR (REMARKS)	REDUCED	75	
MAGNITUDES, OTHER	TRANSCR (REMARKS)	REDUCED	30	Y MAGNITUDES TRANSFORMED TO V
SPECTRAL CLASS	TRANSCR (REMARKS)	REDUCED	70	MK SPECTRAL TYPES WHEN KNOWN
LUMINOSITY CLASS	TRANSCR (REMARKS)	REDUCED	70	MK LUMINOSITY CLASSES WHEN KNOWN
COLORS	TRANSCR (REMARKS)	REDUCED	100	UVBY-BETA SYSTEMS
VARIABLE STARS				
TYPE OF VARIABILITY	TRANSCR	REDUCED	2	INFORMATION GIVEN IN REMARKS WHEN KNOWN
MULTIPLE SYSTEMS				
TYPE OF MULTIPLICITY	TRANSCR	REDUCED	30	IDENTIFIED AS SPECTROSCOPIC, VISUAL BINARY, ETC...
MULTIPLICITY OF SYSTEM	TRANSCR (REMARKS)	REDUCED	30	COMPONENTS IDENTIFIED

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
DECLINATION: -90 TO +90 DEGREES  
SPECTRAL TYPES:  
OTHER: SEE REMARKS

GALACTIC LATITUDE: -90 TO +90 DEGREES  
GALACTIC LONGITUDE: 0 TO 360 DEGREES  
MAGNITUDES: -1.6 TO (VISUAL OR PHOTOGRAPHIC)  
DISTANCE:

FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE  
15000 PUNCHED COMPUTER CARDS  
500 PAGES OF COMPUTER PRINTOUT

KEY REFERENCE(S)

UNPUBLISHED FORMAT AND DESCRIPTION SHEETS

DESCRIPTION OF MACHINE-READABLE DATA FORMS

THIS CATALOGUE WILL BE AVAILABLE IN A FORMAT SUCH THAT ALL FUNDAMENTAL DATA WILL BE MACHINE READABLE AND SEARCHABLE (ALL DATA ENTRIES UNIFORM). DATA TO BE STORED ON 9-TRACK, 1600 BPI, EBCDIC, MAGNETIC TAPE GENERATED ON AN IBM 360 COMPUTER.

REMARKS

OTHER RANGES OR RESTRICTIONS OF COVERAGE INCLUDE ALL STARS OBSERVED ON SYSTEMS. PHOTOELECTRIC MAGNITUDES ARE TRANSCRIBED FROM UVB CATALOGUES, MULTIPLICITIES OF SYSTEMS ARE FROM THE LICK INDEX OF DOUBLE STARS. DATA WILL BE IN A FORM SUCH THAT A USER CAN REDUCE AUTOMATICALLY USING GENERAL REDUCTION PROGRAM TO OBTAIN COLOR EXCESSES, ABSOLUTE VISUAL MAGNITUDES, DISTANCES, ETC..., USING CALIBRATIONS OF SYSTEMS.

DISTRIBUTORS OF THE DATA SET

NAME  
DR. WAYNE H. WARREN, JR.

ADDRESS  
CODE 601  
GODDARD SPACE FLIGHT CENTER  
GREENBELT, MD 20771

CONDITIONS AND COMMENTS  
INDEX CARDS ONLY TO DATE

\*\*\*\*\*  
 \* 042 \*  
 \*\*\*\*\*

DR. WAYNE H. WARREN, JR.  
 CODE 601  
 GODDARD SPACE FLIGHT CENTER  
 GREENBELT, MD  
 20771

TELEPHONE: (301) 982-2133

\*\*\*\*\*

\* DATA FILE 042C \*\*\*\*\* UVBY-BETA OBSERVATIONS OF STARS IN ORION OB 1 \*\*\*\*\*

\*\*\*\*\*

1585 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: WH NUMBER  
 508 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION: 1971 TO 1972

OBJECT CLASSES

DATA CATEGORIES

PHOTOMETRY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
<b>IDENTIFICATION</b>				
HD CATALOGUE NUMBER			95	
DM CATALOGUE NUMBER			9	BD WHEN NO HD NUMBER
OTHER IDENTIFICATION NUMBERS			5	B-Y, M1, C1 ON STANDARD SYSTEM
OTHER (SEE COMMENTS)			100	SEE REFERENCES, 1977.
<b>RADIATION</b>				
PHOTOMETRIC SYSTEM(S)				UVBY-BETA
MAGNITUDES, PHOTOELECTRIC	ORIGINAL	REDUCED	80	Y OR UVBY SYSTEM
MAGNITUDES, OTHER	ORIGINAL	REDUCED	90	H-BETA MAG. ON STANDARD SYSTEM
COLORS	ORIGINAL	REDUCED	95	B-Y, M1, C1 ON STANDARD SYSTEM
OTHER (SEE COMMENTS)	ORIGINAL	RAW	100	DATES OF OBSERVATION

RANGE OF COVERAGE

RIGHT ASCENSION: 5 TO 6 HOURS  
 DECLINATION: -8 TO +6 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES: 2.0 TO 12.0 (VISUAL OR PHOTOGRAPHIC)  
 DISTANCE:

KEY REFERENCE(S)

BRUN, A. - PUBL. OBS. LYON 1. NO. 12, 1935. WARREN, W.H. JR. AND HESSER, J.E. - ASTROPHYS. J. SUPPL., 34, 115, 1977. WARREN, W.H. JR. AND HESSER, J.E. - BULL. AM. ASTRON. SOC. 8, 334, 1976.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

NONE GIVEN

REMARKS

INDIVIDUAL PHOTOELECTRIC UVBY-BETA OBSERVATIONS OF STARS IN THE VICINITY OF THE ORION OB 1 ASSOCIATION INCLUDING DATES OF OBSERVATIONS.

DISTRIBUTORS OF THE DATA SET

NAME-----  
 DR. WAYNE H. WARREN, JR.

ADDRESS-----  
 CODE 601  
 GODDARD SPACE FLIGHT CENTER  
 GREENBELT, MD 20771

CONDITIONS AND COMMENTS  
 SUPPLY BLANK TAPE

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 \* 042 \*  
 \*\*\*\*\*

DR. WAYNE H. WARREN, JR.  
 CODE 601  
 GODDARD SPACE FLIGHT CENTER  
 GREENBELT, MD  
 20771

TELEPHONE: (301) 982-2133

\*\*\*\*\*

\* DATA FILE 0420 \*\*\*\*\* CATALOGUE OF AC/HDE ZODIACAL STARS - HYADES REGION \*\*\*\*\*

\*\*\*\*\*  
 436 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 436 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION:

OBJECT CLASSES		DATA CATEGORIES		CROSS INDEX	
DATA ITEMS APPEARING IN THE FILE				APPROX.	
ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	GIVEN	X WITH THIS	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA RIGHT ASCENSION, DECLINATION			100	1950	
IDENTIFICATION OTHER IDENTIFICATION NUMBERS			60		AGK3 NUMBERS
SAO CATALOGUE NUMBER			25		
CHARTS AVAILABLE			95		CHARTS 40,41,42 OF HENRY DRAPER EXTENSION, HA112
RUNNING NO. IN SOURCE CATALOGUE			95		ASTROGRAPHIC CATALOGUE, BORDEAUX
HD CATALOGUE NUMBER			95		HDE NUMBERS ALSO
DM CATALOGUE NUMBER			95		BD
RADIATION SPECTRAL CLASS	TRANSCR (REMARKS) REDUCED		95		MK WHEN KNOWN; HDE/HD/AGK3, ETC WHEN NO MK.
MAGNITUDES, VISUAL	TRANSCR (REMARKS) REDUCED		80		AC MAGS. WHEN NO PHOTOELECTRIC MAG. AVAILABLE
MAGNITUDES, PHOTOGRAPHIC					
LUMINOSITY CLASS	TRANSCR (REMARKS) REDUCED		5		MK WHEN KNOWN
VARIABLE STARS TYPE OF VARIABILITY	TRANSCR (REMARKS)				GIVEN IN COMMENTS WHEN KNOWN; GEN.CAT-VAR.STARS
MULTIPLE SYSTEMS TYPE OF MULTIPLICITY	TRANSCR (REMARKS) REDUCED				ANY SOURCE
MULTIPLICITY OF SYSTEM	TRANSCR (REMARKS) REDUCED				LICK INDEX CATALOGUE OF VISUAL DOUBLE STARS (IDS)
SEPARATION (VISUAL BINARIES)	TRANSCR (REMARKS) REDUCED				IDS
RANGE OF COVERAGE RIGHT ASCENSION: 4 TO 5 HOURS					GALACTIC LATITUDE:
DECLINATION: +18 TO +14 DEGREES					GALACTIC LONGITUDE:
SPECTRAL TYPES:					MAGNITUDES: -1.0 TO 11.0 (VISUAL OR PHOTOGRAPHIC)
OTHER:					DISTANCE:

FORM(S) OF COMPILATION: 8 PAGES COMPUTER PRINTOUT  
 436 PUNCHED COMPUTER CARDS  
 1 MAGNETIC TAPE

KEY REFERENCE(S)  
 UNPUBLISHED FORMAT AND DESCRIPTION SHEETS

DESCRIPTION OF MACHINE-READABLE DATA FORMS  
 DATA FORMAT UNIFORM CREATED ON IBM 360. TAPE: 9 TRACKS, 1600 BPI, EBCDIC CODED.

REMARKS  
 POSITIONAL DATA ARE GIVEN IN ORDER OF PRIORITY: FK4, N30, ZC (ZODIACAL CATALOGUE), SAO, AGK3, AC AND  
 SOURCE IS SPECIFIED. COMMENTS TO CATALOGUE GIVE MISCELLANEOUS INFORMATION IN ADDITION TO DUPLICITY,  
 VARIABILITY, ETC. CATALOGUE PREPARED BY IDENTIFYING STARS USING AC COORDINATES AND HDE CHARTS.

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. W. H. WARREN JR.	CODE 601 GODDARD SPACE FLIGHT CENTER GREENBELT, MD. 20771	REQUESTER SHOULD SUPPLY BLANK MAGNETIC TAPE FOR COPYING

\*\*\*\*\*  
 \* 043 \*  
 \*\*\*\*\*

DR. HEINRICH J. WENDKER  
 HAMBURGER STERNWART  
 GOJENBERGSWEG 112  
 2050 HAMBURG 80  
 FEDERAL REPUBLIC OF GERMANY

TELEPHONE:

\*\*\*\*\*

\* DATA FILE 043A \*\*\*\*\* CATALOGUE OF RADIO STARS \*\*\*\*\*

\*\*\*\*\*

1100 ENTRIES  
 290 OBJECTS

99% COMPLETE  
 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 DATES OF OBSERVATION: 1965 TO 1976

OBJECT CLASSES		DATA CATEGORIES		
RADIO SOURCES		RADIO ASTRONOMY		
DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
ITEM				
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)			
PROPER MOTION (R.A., DEC.)	TRANSCR (REMARKS)			ERROR NOT SPECIFIED
IDENTIFICATION				
OTHER (SEE COMMENTS)				RIGHT ASCENSION AND DECLINATION
RADIATION				
OTHER (SEE COMMENTS)	TRANSCR	RAW	100	RADIO RADIATION IN JY
VARIABLE STARS				
OTHER (SEE COMMENTS)	TRANSCR	RAW		MAX AND MIN FLUX DENSITY
RANGE OF COVERAGE				
RIGHT ASCENSION:	0 TO 24 HOURS			GALACTIC LATITUDE:
DECLINATION:	-90 TO +90 DEGREES			GALACTIC LONGITUDE:
SPECTRAL TYPES:				MAGNITUDES:
OTHER:	ALL AVAILABLE DATA			DISTANCE:

FORM(S) OF COMPILATION: PUNCHED COMPUTER CARDS  
 COMPUTER PRINTOUT

KEY REFERENCE(S)  
 NOT YET PUBLISHED

DESCRIPTION OF MACHINE-READABLE DATA FORMS  
 NONE GIVEN

REMARKS  
 OTHER DATA ITEMS IN THE CATALOGUE INCLUDE, A CLASSIFICATION, OBSERVED FREQUENCY, TIME SPAN OF MONITORING, REFERENCES, AND DATE OF OBSERVATIONS. THE SOURCE OF THE POSITIONAL DATA IS THE AGK3 CATALOGUE. THIS COMPILATION WILL BE UPDATED REGULARLY.

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. HEINRICH J. WENDKER	HAMBURGER STERNWART GOJENBERGSWEG 112 2050 HAMBURG 80 FEDERAL REPUBLIC OF GERMANY	LISTING ON REQUEST WITHOUT CHARGE AND DUPLICATING ON REQUEST, PROBABLY WITHOUT CHARGE.



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 \* 044 \*  
 \*\*\*\*\*

DR. RAYMOND E. WHITE  
 STEWARD OBSERVATORY  
 UNIVERSITY OF ARIZONA  
 TUCSON, AZ  
 85721

TELEPHONE: (602) 884-2288

\*\*\*\*\*

\* DATA FILE 044A \*\*\*\*\* CATALOG OF CLUSTERS AND ASSOCIATIONS \*\*\*\*\*

\*\*\*\*\*

15000 ENTRIES  
 3000 OBJECTS

95% COMPLETE  
 1% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 DATES OF OBSERVATION: 1900 TO 1977

# OBJECT CLASSES

ASSOCIATIONS  
 GLOBULAR CLUSTERS  
 OPEN CLUSTERS

# DATA CATEGORIES

OPTICAL ASTRONOMY  
 PHOTOMETRY  
 POLARIMETRY  
 POSITIONAL ASTRONOMY  
 PROPER MOTIONS  
 RADIAL VELOCITIES  
 RADIO ASTRONOMY  
 ROTATIONAL VELOCITIES  
 SPACE MOTIONS  
 SPECTROPHOTOMETRY  
 SPECTROSCOPY  
 X-RAY ASTRONOMY

## DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
<b>POSITIONAL DATA</b>				
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)	REDUCED	100	EPOCH 1950
GALACTIC COORDINATES	TRANSCR (REMARKS)	REDUCED	100	SYSTEM II
RECTANGULAR COORDINATES	TRANSCR (REMARKS)	REDUCED		
OTHER (SEE COMMENTS)	TRANSCR (REMARKS)	REDUCED		(X,Y) DISTANCE FROM LOWER R.H. CORNER OF POSS PRINT
<b>IDENTIFICATION</b>				
RUNNING NO. IN SOURCE CATALOGUE	TRANSCR (REMARKS)	REDUCED	100	
NGC, IC CATALOGUE NUMBER	TRANSCR (REMARKS)	REDUCED		
OTHER IDENTIFICATION NUMBERS	TRANSCR (REMARKS)	REDUCED	100	
<b>RADIATION</b>				
MAGNITUDES, OTHER	TRANSCR (REMARKS)	REDUCED		INTEGRATED LIGHT
SPECTRAL CLASS	TRANSCR (REMARKS)	REDUCED		INTEGRATED LIGHT
COLOR EXCESS	TRANSCR (REMARKS)	REDUCED		INTEGRATED LIGHT
POLARIZATION	TRANSCR (REMARKS)	REDUCED		INTEGRATED LIGHT
<b>DERIVED QUANTITIES</b>				
DISTANCE MODULUS	TRANSCR (REMARKS)	REDUCED		
<b>VARIABLE STARS</b>				
<b>OTHER</b>				
RADIAL VELOCITY	TRANSCR (REMARKS)	REDUCED		

## RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE: -90 TO +90 DEGREES  
 GALACTIC LONGITUDE: 0 TO 360 DEGREES  
 MAGNITUDES:  
 DISTANCE:

FORM(S) OF COMPILATION: DIGITAL MAGNETIC  
 PUNCHED COMPUTER CARDS  
 COMPUTER PRINTOUT

## KEY REFERENCE(S)

ALTER, G., RUPRECHT, J., AND BALASZ, B. - CATALOG OF STAR CLUSTERS AND ASSOCIATIONS, CZECH. ACADEMY OF SCIENCES; SECOND EDITION. BALASZ, B., RUPRECHT, J., AND WHITE, R.E. - FIRST SUPPLEMENT TO THE SECOND EDITION OF THE CLUSTER CATALOG, CZECH. ACADEMY OF SCIENCES, 1977.

## DESCRIPTION OF MACHINE-READABLE DATA FORMS

CONTROL DATA, SCOPE OPERATING SYSTEM FORMATTED TAPE AT 556 BPI, SEVEN OR NINE TRACK. EITHER ASCII CARD IMAGES OR COPY OF SELGEM MASTER FILE.

## REMARKS

THIS COMPILATION IS MAINLY BIBLIOGRAPHIC REFERENCE TO ORIGINAL SOURCES OF DATA. ALL DATA ARE TRANSCRIBED FROM THE CATALOGUE OF CLUSTERS AND ASSOCIATIONS (2ND ED.) AND ITS FIRST SUPPLEMENT. THIS DATA BASE IS DESIGNED TO BE ACCESSED BY THE SMITHSONIAN INSTITUTE SELGEM CATALOGING SYSTEM. ANY INSTALLATION WHICH SUPPORTS COBOL LANGUAGE AND 2 MAG TAPE DRIVES MAY USE IT. COPIES OF THE SOFTWARE WITH DOCUMENTATION MAY BE OBTAINED DIRECTLY FROM THE SMITHSONIAN AT NO CHARGE. IF YOU SUPPORT THIS SOFTWARE, WE MAY SEND YOU THE ENTIRE DATA BASE AND DOCUMENTATION. THIS CONSISTS OF THE SELGEM MASTER FILE TAPE. ALSO AVAILABLE IS A LISTING OF OBJECTS WITH USER SPECIFIED PARAMETERS.

## DISTRIBUTORS OF THE DATA SET

NAME  
 EDWARD C. BESHORE

ADDRESS  
 C/O RAYMOND E. WHITE  
 STEWARD OBSERVATORY  
 UNIVERSITY OF ARIZONA  
 TUCSON, AZ 85721

CONDITIONS AND COMMENTS  
 USER MUST SUPPLY TAPE, PAY FOR COMPUTER COSTS AND MAILING

\*\*\*\*\*  
 \* 044 \*  
 \*\*\*\*\*

DR. RAYMOND E. WHITE  
 STEWARD OBSERVATORY  
 UNIVERSITY OF ARIZONA  
 TUCSON, AZ  
 85721

TELEPHONE: (602) 884-2288

\*\*\*\*\*  
 \* DATA FILE 044B \*  
 \*\*\*\*\*

\*\*\*\*\* STELLAR (FE/H) RATIOS \*\*\*\*\*

600 ENTRIES  
 500 OBJECTS

50% COMPLETE  
 50% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: HD NUMBER  
 DATES OF OBSERVATION: 1950 TO 1975

OBJECT CLASSES

DATA CATEGORIES

OPTICAL ASTRONOMY  
 PHOTOMETRY  
 SPECTROPHOTOMETRY  
 SPECTROSCOPY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
IDENTIFICATION HD CATALOGUE NUMBER			100	
RADIATION				
MAGNITUDES, PHOTOELECTRIC	TRANSCR (REMARKS)	REDUCED	60	
SPECTRAL CLASS	TRANSCR (REMARKS)	REDUCED	90	
LUMINOSITY CLASS	TRANSCR (REMARKS)	REDUCED	90	
DERIVED QUANTITIES				
TEMPERATURE	TRANSCR (REMARKS)	REDUCED	75	
SURFACE GRAVITY	TRANSCR (REMARKS)	REDUCED	60	
ABUNDANCES	TRANSCR (REMARKS)	REDUCED	100	
RANGE OF COVERAGE				
RIGHT ASCENSION:	0 TO 24 HOURS			GALACTIC LATITUDE:
DECLINATION:	-90 TO +90 DEGREES			GALACTIC LONGITUDE:
SPECTRAL TYPES:	ALL			MAGNITUDES:
OTHER:	PUB. FE/H RATIOS			DISTANCE:

FORM(S) OF COMPILATION: 2 DIGITAL MAGNETIC TAPES  
 COMPUTER PRINTOUT

KEY REFERENCE(S)

CAYREL, R. AND CAYREL DE STROBEL, G. - ABUNDANCE DETERMINATIONS FROM STELLAR SPECTRA, ANN. REV., 4, 1.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

DIGITAL EQUIPMENT DEC-TAPE, RANDOM ACCESS FORMAT, DESIGNED TO COMPLEMENT A BASIC DATA-BASE PROGRAM FOR QUICK INTERACTIVE ACCESS TO DATA. WILL SUPPLY COPY OF PROGRAM EITHER IN LISTING OR ON DEC-TAPE.

REMARKS

THIS DATA SET WILL BE USELESS IN ITS DEC-TAPE FORM UNLESS THE USER HAS A DEC MACHINE WITH BASIC LANGUAGE. THE FILE STRUCTURE IS CREATED BY THE BASIC INTERPRETER. FOR PARTICULAR DATA, WE CAN SUPPLY OUTPUT FROM THE PROGRAM ITSELF. AT AN ADDED EXPENSE, WE CAN REFORMAT THE DATA, AND PUT IT ON CDC SCOPE FORMATTED TAPES. PLEASE BE SPECIFIC IN REQUESTS. SINCE THE DATA BASE IS STILL BEING TESTED, THERE MAY BE SOME DELAY UNTIL ABOUT FEB. 1, 1977, WHEN WE EXPECT TO HAVE THE SYSTEM FULLY OPERATIONAL. ALL SOURCES OF THIS DATA ARE INCLUDED IN THE DATA SET.

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
EDWARD BESHORE	C/O RAYMOND E. WHITE STEWARD OBSERVATORY UNIVERSITY OF ARIZONA TUCSON, AZ 85721	USER MUST SUPPLY TAPE, PAY FOR COMPUTER COSTS AND MAILING.

\*\*\*\*\*  
 \* 045 \*  
 \*\*\*\*\*

PROF. FRANK BRADSHAW WOOD      TELEPHONE: (904) 392-2059  
 DEPARTMENT OF PHYSICS AND ASTRONOMY  
 UNIVERSITY OF FLORIDA  
 GAINESVILLE, FL  
 32611

\*\*\*\*\*  
 \* DATA FILE 045A \*      CARD CATALOGUE OF ECLIPSING BINARIES \*\*\*\*\*  
 \*\*\*\*\*  
 50000 ENTRIES      99% COMPLETE      PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1900)  
 2000 OBJECTS      N/A% MACHINE-READABLE      DATES OF OBSERVATION: 1922 TO 1977

OBJECT CLASSES	DATA CATEGORIES
-----	-----
ALGOL SYSTEMS	INFRARED ASTRONOMY
BETA LYRAE STARS	OPTICAL ASTRONOMY
CLOSE BINARIES	PHOTOMETRY
CONTACT BINARIES	
ECLIPSING VARIABLES	
NOVAE	
U GEMINORUM STARS	
VV CEPHEI STARS	
U UMA STARS	

DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)	REDUCED	100	EPOCH 1900
IDENTIFICATION				
RUNNING NO. IN SOURCE CATALOGUE			100	
HD CATALOGUE NUMBER				BD, CD, CPD
DM CATALOGUE NUMBER				
NGC, IC CATALOGUE NUMBER				
OTHER IDENTIFICATION NUMBERS				BV, VV, OV, SVS, VARIABLE STAR DESIGNATION
RADIATION				
MAGNITUDES, VISUAL	TRANSCR (REMARKS)		40	
MAGNITUDES, PHOTOGRAPHIC	TRANSCR (REMARKS)		40	
MAGNITUDES, PHOTOELECTRIC	TRANSCR		20	
SPECTRAL CLASS	TRANSCR		75	
EMISSION/ABSORPTION LINES	TRANSCR		5	
LUMINOSITY CLASS	TRANSCR		20	
COLORS	TRANSCR		5	
COLOR EXCESS	TRANSCR		2	
POLARIZATION	TRANSCR		2	
DERIVED QUANTITIES				
TEMPERATURE	TRANSCR		15	
SURFACE GRAVITY	TRANSCR		1	
ABUNDANCES	TRANSCR		1	
VARIABLE STARS				
TYPE OF VARIABILITY	TRANSCR		100	ECLIPSING VARIABLES
MAXIMUM AND MINIMUM MAGNITUDES	TRANSCR		100	
PERIOD OF VARIABILITY	TRANSCR		100	
OTHER (SEE COMMENTS)				TIMES OF MINIMUM OFTEN LISTED
MULTIPLE SYSTEMS				
TYPE OF MULTIPLICITY			100	CLOSE DOUBLES WHICH ECLIPSE
MAX/MIN MAGNITUDES OF SYSTEM			100	
EPHEMERIS			95	
ORBITAL PARAMETERS			25	
OTHER (SEE COMMENTS)				ALL AVAILABLE INFORMATION
OTHER				
SPACE VELOCITY			2	
ROTATIONAL VELOCITY			2	
RADIAL VELOCITY			30	

RANGE OF COVERAGE  
 RIGHT ASCENSION: 0 TO 24 HOURS      GALACTIC LATITUDE: -90 TO +90 DEGREES  
 DECLINATION: -90 TO +90 DEGREES      GALACTIC LONGITUDE: 0 TO 360 DEGREES  
 SPECTRAL TYPES:      MAGNITUDES:  
 OTHER:      DISTANCE:

FORM(S) OF COMPILATION: XEROX OF CARDS

KEY REFERENCE(S)  
 KOCH, R.H., SOBIESKI, S., AND WOOD, F.B. - A FINDING LIST FOR OBSERVERS OF ECLIPSING VARIABLES FOURTH EDITION. U. OF PENNSYLVANIA, ASTRONOMICAL SERIES, VOL. IX, 1963. KOCH, R.H., PLAVEC, F.B. - A CATALOGUE OF GRADED PHOTOMETRIC STUDIES OF CLOSE BINARIES, U. OF PENNSYLVANIA, ASTRONOMICAL SERIES, VOL. XI, 1970.

DESCRIPTION OF MACHINE-READABLE DATA FORMS  
 NONE GIVEN

REMARKS  
 ALL TRANSCRIBED DATA ARE FROM ALL AVAILABLE MATERIAL AND LITERATURE.

DISTRIBUTORS OF THE DATA SET		CONDITIONS AND COMMENTS
NAME	ADDRESS	
PROF. FRANK B. WOOD	DEPARTMENT OF PHYSICS AND ASTRONOMY UNIVERSITY OF FLORIDA GAINESVILLE, FL 32611	
KWAN-YU CHEN	DEPARTMENT OF PHYSICS AND ASTRONOMY UNIVERSITY OF FLORIDA GAINESVILLE, FL 32611	
DAVID FLORKOWSKI	DEPARTMENT OF PHYSICS AND ASTRONOMY UNIVERSITY OF FLORIDA GAINESVILLE, FL 32611	

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 \* 046 \*  
 \*\*\*\*\*

MR. CHARLES E. WORLEY  
 US NAVAL OBSERVATORY  
 WASHINGTON, DC  
 20390

TELEPHONE: (202) 254-4615

\*\*\*\*\*  
 \* DATA FILE 046A \*\*\*\*\*  
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## OBSERVATION CATALOGUE OF VISUAL DOUBLE STARS \*\*\*\*\*

325000 ENTRIES  
 70000 OBJECTS

75% COMPLETE  
 75% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1900)  
 DATES OF OBSERVATION: 1780 TO 1976

OBJECT CLASSES		DATA CATEGORIES		
VISUAL BINARIES		ASTROMETRY		
DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA RIGHT ASCENSION, DECLINATION	TRANSCR (DM)		100	EPOCH 1900
IDENTIFICATION OTHER IDENTIFICATION NUMBERS				AITKEN DOUBLE STAR CATALOG NUMBER
RADIATION MAGNITUDES, VISUAL MAGNITUDES, PHOTOGRAPHIC MAGNITUDES, PHOTOELECTRIC MAGNITUDES, OTHER				MAGNITUDES AND MAGNITUDE DIFFERENCES AS MEASURED OR ESTIMATED BY THE OBSERVER
MULTIPLE SYSTEMS MULTIPLICITY OF SYSTEM SEPARATION (VISUAL BINARIES)				POSITION ANGLES ALSO
RANGE OF COVERAGE RIGHT ASCENSION: 0 TO 24 HOURS DECLINATION: -90 TO +90 DEGREES SPECTRAL TYPES: ALL OTHER:				GALACTIC LATITUDE: GALACTIC LONGITUDE: MAGNITUDES: DISTANCE:
FORM(S) OF COMPILATION: 2 DIGITAL MAGNETIC TAPES PUNCHED COMPUTER CARDS				
KEY REFERENCE(S) - OBSERVATION CATALOG OF DOUBLE STARS.				
DESCRIPTION OF MACHINE-READABLE DATA FORMS DATA AVAILABLE ON CARDS, OR LISTINGS, OR FOR LARGE AMOUNTS, ON 7 OR 9-TRACK TAPE, CREATED ON AN IBM 360/44 COMPUTER WRITTEN AT 556,800,1600 BPI, EBCDIC MODE.				
REMARKS SMALL AMOUNTS OF DATA WILL BE SUPPLIED FREE IN THE FORM OF LISTINGS OR CARDS.				
DISTRIBUTORS OF THE DATA SET				
NAME-----	ADDRESS-----		CONDITIONS AND COMMENTS	
MR. CHARLES E. WORLEY	US NAVAL OBSERVATORY WASHINGTON, DC 20390		THREE BLANK CARDS OR TAPES IN EXCHANGE FOR ONE DATA FILLED	

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 \* 046 \*  
 \*\*\*\*\*

MR. CHARLES E. WORLEY  
 US NAVAL OBSERVATORY  
 WASHINGTON, DC  
 20390

TELEPHONE: (202) 254-4615

\*\*\*\*\*  
 \* DATA FILE 046B \*  
 \*\*\*\*\*

\*\*\*\*\* INDEX CATALOGUE OF VISUAL DOUBLE STARS \*\*\*\*\*

70000 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1900)  
 70000 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION: 1780 TO 1976

OBJECT CLASSES		DATA CATEGORIES	
VISUAL BINARIES		ASTROMETRY	
DATA ITEMS APPEARING IN THE FILE			
ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN
COMMENTS AND OTHER INFORMATION			
POSITIONAL DATA			
RIGHT ASCENSION, DECLINATION	TRANSCR (DM)		100
PROPER MOTION (R.A., DEC.)	TRANSCR		
EPOCH 1900 ERROR NOT SPECIFIED			
IDENTIFICATION			
DM CATALOGUE NUMBER			50
OTHER IDENTIFICATION NUMBERS			99
NO. OF OBS. PER OBJECT OF MEAS.			99
BD, COD, CPD DISCOVERER NAME AND NUMBER, ADS NO.			
RADIATION			
MAGNITUDES, VISUAL	TRANSCR (REMARKS)		
MAGNITUDES, PHOTOELECTRIC	TRANSCR (REMARKS)		
MAGNITUDES, OTHER	TRANSCR (REMARKS)		
SPECTRAL CLASS	TRANSCR (HD)		35
MAGNITUDES, PHOTOGRAPHIC	TRANSCR (REMARKS)		
ALSO OTHER SOURCES			
MULTIPLE SYSTEMS			
MULTIPLICITY OF SYSTEM	TRANSCR		
SEPARATION (VISUAL BINARIES)	TRANSCR		
RANGE OF COVERAGE			
RIGHT ASCENSION:	0 TO 24 HOURS	GALACTIC LATITUDE:	
DECLINATION:	-90 TO +90 DEGREES	GALACTIC LONGITUDE:	
SPECTRAL TYPES:		MAGNITUDES:	
OTHER:		DISTANCE:	
FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE COMPUTER PRINTOUT 70,000 PUNCHED CARDS			
KEY REFERENCE(S) JEFFERS, VAN DEN BOS, AND GREEBY - INDEX CATALOGUE OF VISUAL DOUBLE STARS, PUBLICATIONS OF THE LICK OBSERVATORY, VOL. XXI, 1963.			
DESCRIPTION OF MACHINE-READABLE DATA FORMS DATA AVAILABLE ON CARDS, OR LISTINGS, OR FOR LARGE AMOUNTS, ON 7 OR 9-TRACK TAPE, CREATED ON AN IBM 360/44 COMPUTER WRITTEN AT 556,800,1600 BPI, EBCDIC MODE.			
REMARKS MAGNITUDES IN THIS CATALOGUE ARE TAKEN FROM MANY SOURCES. ONLY SMALL AMOUNTS OF DATA WILL BE SUPPLIED IN THE FORMS OTHER THAN MAGNETIC TAPE. THESE SMALL AMOUNTS WILL BE SUPPLIED FREE IN THE FORM OF LISTING OR CARDS.			
DISTRIBUTORS OF THE DATA SET			
NAME	ADDRESS	CONDITIONS AND COMMENTS	
MR. CHARLES E. WORLEY	US NAVAL OBSERVATORY WASHINGTON, DC 20390	THREE BLANK TAPES IN EXCHANGE FOR ONE DATA FILLED, THREE BLANK CARDS IN EXCHANGE FOR EACH DATA CARD	

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 \* 047 \*  
 \*\*\*\*\*

MR. ROY H. PHILLIPS  
 E123  
 MARSHALL SPACE FLIGHT CENTER  
 REDSTONE ARSENAL  
 HUNTSVILLE, AL  
 35812

TELEPHONE: (205) 453-1089

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 \* DATA FILE 047A \*  
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\*\*\*\*\* SKYMAP CROSS-INDEXED STAR CATALOGUE \*\*\*\*\*

44571 ENTRIES N/A% COMPLETE PRIMARY SEQUENCE OF ORDERING: CROSS-INDEXED RANDOM  
 44571 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION:

OBJECT CLASSES

DATA CATEGORIES

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
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POSITIONAL DATA

RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)	UNKNOWN	100	EPOCH 1950
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IDENTIFICATION

HD CATALOGUE NUMBER			99	
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RADIATION

MAGNITUDES, OTHER	TRANSCR (REMARKS)	UNKNOWN	100	
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RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES: -1.6 TO 9.0 (VISUAL OR PHOTOGRAPHIC)  
 DISTANCE:

FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE

KEY REFERENCE(S)

NONE GIVEN

DESCRIPTION OF MACHINE-READABLE DATA FORMS

DATA FILE IS KEYED RANDOM ACCESS FORMAT ON MAGNETIC DISK, CONSISTING OF 45000 RECORDS, EACH RECORD 52 BYTES IN LENGTH. BUILT ON PDP 11/70 RSX11-D SYSTEM. FILE CAN EASILY BE TRANSFERRED TO 9-TRACK MAGNETIC TAPE.

REMARKS

THE DATA IN THIS CATALOGUE WERE COMPILED BY COMPUTER SCIENCES CORPORATION FOR GODDARD SPACE FLIGHT CENTER. THE DATA FILE DESCRIBED IS A CONDENSED VERSION OF THE ORIGINAL. THE MAIN FEATURE OF THIS PARTICULAR DATA BASE IS THAT EACH RECORD CONTAINS INDEX POINTERS TO THE RECORDS WITH THE NEXT HIGHER RIGHT ASCENSION, NEXT LOWER RIGHT ASCENSION, NEXT HIGHER DECLINATION AND NEXT LOWER DECLINATION. THERE IS ALSO A BLOCK OF RECORDS CONTAINING POINTERS TO AN ENTRY IN A 10 DEGREES DEC BLOCK CONTAINING THE INITIAL RA, DEC THAT ONE MIGHT USE TO BEGIN A SEARCH.

DISTRIBUTORS OF THE DATA SET

NAME  
 MR. ROY H. PHILLIPS

ADDRESS  
 E123  
 MARSHALL SPACE FLIGHT CENTER  
 REDSTONE ARSENAL  
 HUNTSVILLE, AL 35812

CONDITIONS AND COMMENTS  
 SUPPLY BLANK TAPE

\*\*\*\*\*  
 \* 048 \*  
 \*\*\*\*\*

DR. BRUCE A. PETERSON  
 ANGLO-AUSTRALIAN OBSERVATORY  
 P.O. BOX 296  
 EPPING NSW 2121  
 AUSTRALIA

TELEPHONE:

\*\*\*\*\*

\* DATA FILE 048A \*\*\*\*\* SPECTRUM SCANS \*\*\*\*\*

\*\*\*\*\* 20000 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: DATE OF OBSERVATION  
 4000 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION: 1975 TO 1977

OBJECT CLASSES

DATA CATEGORIES

OPTICAL ASTRONOMY  
 SPECTROPHOTOMETRY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA RIGHT ASCENSION, DECLINATION	ORIGINAL	RAW	100	
IDENTIFICATION RUNNING NO. IN SOURCE CATALOGUE			100	AS LOGGED AT TELESCOPE
OTHER IDENTIFICATION NUMBERS			100	AS NAMED BY OBSERVER
REMARKS			2	AS ENTERED BY OBSERVER
RADIATION PHOTOMETRIC SYSTEM(S) FLUX	ORIGINAL	RAW	100	IDS AND IPCS FLUX GIVEN AS COUNTS PER CHANNEL
OTHER OTHER (SEE COMMENTS)	ORIGINAL	RAW	100	ARCS, FLAT FIELDS, STD STARS FOR CALIBRATION

RANGE OF COVERAGE  
 RIGHT ASCENSION: 0  
 DECLINATION: -90 TO +40 DEGREES  
 SPECTRAL TYPES:  
 OTHER:  
 GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES:  
 DISTANCE:

FORM(S) OF COMPILATION: 20 DIGITAL MAGNETIC TAPES  
 COMPUTER LISTING OF LOG OF ALL ENTRIES

KEY REFERENCE(S)  
 NONE GIVEN

DESCRIPTION OF MACHINE-READABLE DATA FORMS  
 THESE DATA ARE CONTAINED ON 800 BPI, ASCII, 9-TRACK, MAGNETIC TAPES, CREATED ON AN INTERDATA-70 COMPUTER.

REMARKS

THE DATA CONSIST OF SPECTROPHOTOMETRIC SCANS WITH THE IMAGE DISSECTOR SCANNER AND THE IMAGE PHOTON COUNTING SYSTEM ON THE 4-METER ANGLO-AUSTRALIAN TELESCOPE. THE DATA ARE IN AN UNREDUCED FORM, BUT INCLUDE THE NECESSARY ARCS, FLAT FIELDS, AND STANDARD STARS TO PRODUCE THE WAVELENGTH AND FLUX CALIBRATIONS FOR REDUCTION. THE POSITION INFORMATION IS THE APPARENT PLACE AT TIME OF OBSERVATION.

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
THE DIRECTOR	ANGLO-AUSTRALIAN OBSERVATORY P.O. BOX 296 EPPING NSW 2121 AUSTRALIA	REQUESTS WILL BE HONORED ONLY FOR DATA ON SPECIFIC OBJECTS. DATA WILL BE RELEASED WITH PERMISSION OF OBS. REQ. MUST PAY COPYING COST

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 \* 049 \*  
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DR. EDWARD M. SION  
 DEPARTMENT OF ASTRONOMY  
 VILLANOVA UNIVERSITY  
 VILLANOVA, PA  
 19085

TELEPHONE: (215) 527-2100

\*\*\*\*\*

\* DATA FILE 049A \*\*\*\*\* CAT. OF SPECTROSCOPICALLY IDENTIFIED WHITE DWARFS \*\*\*\*\*

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11 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 600 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION:

OBJECT CLASSES

WHITE DWARFS

DATA CATEGORIES

ASTROMETRY  
 OPTICAL ASTRONOMY  
 PARALLAXES  
 PHOTOMETRY  
 POSITIONAL ASTRONOMY  
 PROPER MOTIONS  
 RADIAL VELOCITIES  
 SPECTROPHOTOMETRY  
 SPECTROSCOPY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
<b>POSITIONAL DATA</b>				
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)	REDUCED	100	EPOCH 1950
PROPER MOTION (TOTAL)	TRANSCR (REMARKS)	REDUCED	95	ERROR NOT SPECIFIED
PARALLAX, TRIGONOMETRIC	TRANSCR (REMARKS)	REDUCED	35	
<b>IDENTIFICATION</b>				
RUNNING NO. IN SOURCE CATALOGUE			100	
OTHER IDENTIFICATION NUMBERS			100	
OTHER (SEE COMMENTS)	TRANSCR (REMARKS)	REDUCED	95	PROPER MOTION, DISCOVERY NAMES
<b>RADIATION</b>				
MAGNITUDES, PHOTOGRAPHIC	TRANSCR (REMARKS)	REDUCED	40	LISTED WHEN NO PHOTOELECTRIC EXISTS
MAGNITUDES, PHOTOELECTRIC	TRANSCR (REMARKS)	REDUCED	60	BROAD BAND UBV AND STROMGREN
MAGNITUDES, OTHER	TRANSCR (REMARKS)	REDUCED	30	MULTI-CHANNEL V
SPECTRAL CLASS	TRANSCR (REMARKS)	REDUCED	100	
COLORS	TRANSCR (REMARKS)	REDUCED	100	COLOR CLASS OR MEASURED COLORS
<b>DERIVED QUANTITIES</b>				
OTHER (SEE COMMENTS)	TRANSCR (REMARKS)	REDUCED	30	EQUIVALENT WIDTHS, HALF WIDTHS
<b>MULTIPLE SYSTEMS</b>				
OTHER (SEE COMMENTS)	TRANSCR (REMARKS)	REDUCED	8	VARIABLE STARS IDENTIFIED IN NOTES
<b>OTHER</b>				
RADIAL VELOCITY	TRANSCR (REMARKS)	REDUCED	25	

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES:  
 DISTANCE:

FORM(S) OF COMPILATION: BOUND BOOKS

KEY REFERENCE(S)

VILLANOVA UNIVERSITY OBSERVATORY CONTRIBUTIONS NO. 2

DESCRIPTION OF MACHINE-READABLE DATA FORMS

MACHINE-READABLE FORMAT

REMARKS

PRIMARY REFERENCES ARE PROPER MOTION AND PARALLAX CATALOGUES, THE ASTROPHYSICAL JOURNAL, ASTRONOMICAL JOURNAL, MON. NOT. ROY. ASTR. SOC., APPENDIX HAS CROSS REFERENCES WITH CATALOGUE NUMBER FOR GICLAS NUMBER GD NUMBER AND EG NUMBER (GREENSTEIN). A NOTES SECTION IS INCLUDED. THE CATALOGUE LISTS DATA UP TO MAY 1977.

DISTRIBUTORS OF THE DATA SET

NAME-----  
 DR. EDWARD M. SION

ADDRESS-----  
 DEPARTMENT OF ASTRONOMY  
 VILLANOVA UNIVERSITY  
 VILLANOVA, PA 19085

CONDITIONS AND COMMENTS

DR. GEORGE P. MCCOOK

DEPARTMENT OF ASTRONOMY  
 VILLANOVA UNIVERSITY  
 VILLANOVA, PA 19085



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DR. THERESA A. NAGY  
 CODE 681  
 GODDARD SPACE FLIGHT CENTER  
 GREENBELT, MD.  
 20771

TELEPHONE: (301) 982-6269

\*\*\*\*\*

\* DATA FILE 050A \*\*\*\*\* REFERENCE CATALOGUE OF BRIGHT GALAXIES (I) \*\*\*\*\*

\*\*\*\*\* 2597 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 2597 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION:

OBJECT CLASSES		DATA CATEGORIES		
GALAXIES		OPTICAL ASTRONOMY PHOTOMETRY REDSHIFTS		
DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	TRANSCR	REDUCED	100	EPOCH 1950
GALACTIC COORDINATES			100	SYSTEM I AND SYSTEM II
ANNUAL VARIATION	TRANSCR	REDUCED	100	
IDENTIFICATION				
NGC, IC CATALOGUE NUMBER			100	
REMARKS			70	
RADIATION				
MAGNITUDES, PHOTOGRAPHIC	TRANSCR	REDUCED	60	
COLORS	TRANSCR	REDUCED	30	
OTHER				
REDSHIFT	TRANSCR	REDUCED	40	

#### RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE: -90 TO +90 DEGREES  
 GALACTIC LONGITUDE: 0 TO 360 DEGREES  
 MAGNITUDES:  
 DISTANCE:

FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE

#### KEY REFERENCE(S)

DE VAUCOULEURS - REFERENCE CATALOGUE OF BRIGHT GALAXIES, U OF TEXAS, AUSTIN, 1964.

#### DESCRIPTION OF MACHINE-READABLE DATA FORMS

THESE DATA ARE AVAILABLE ON A 9-TRACK, 1600 BPI, EBCDIC, MAGNETIC TAPE.

#### REMARKS

DOCUMENTATION INCLUDES A PROGRAM INDEX, A DESCRIPTION OF THE CONTENTS AND FORMAT OF THE DATA STORED IN EACH RECORD. ALSO INCLUDED IS A PRINTOUT OF SOME OF THE TAPE.

#### DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. THERESA A. NAGY	CODE 681 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SUPPLY BLANK MAGNETIC TAPE
DR. JAYLEE MEAD	CODE 680 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SUPPLY BLANK MAGNETIC TAPE

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 \* 050 \*  
 \*\*\*\*\*

DR. THERESA A. NAGY  
 CODE 681  
 GODDARD SPACE FLIGHT CENTER  
 GREENBELT, MD.  
 20771

TELEPHONE: (301) 982-6269

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\* DATA FILE 050B \* CATALOGUE OF H-GAMMA MEASURES \*\*\*\*\*

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1172 ENTRIES 100% COMPLETE  
 1172 OBJECTS 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1900)  
 DATES OF OBSERVATION: TO 1973

OBJECT CLASSES

DATA CATEGORIES

OPTICAL ASTRONOMY  
 SPECTROSCOPY

DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
ITEM				
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	TRANSCR (HD)		100	EPOCH 1900
IDENTIFICATION				
RUNNING NO. IN SOURCE CATALOGUE			100	
HD CATALOGUE NUMBER			85	
DM CATALOGUE NUMBER			5	BD
OTHER IDENTIFICATION NUMBERS			10	
RADIATION				
MAGNITUDES, VISUAL	TRANSCR		100	
SPECTRAL CLASS	TRANSCR		100	JASCHEK
COLORS	TRANSCR		95	BLANCO, B-V, U-B
DERIVED QUANTITIES				
OTHER (SEE COMMENTS)	ORIGINAL	REDUCED	100	H-GAMMA MEASURES

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -21 TO +90 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE: -90 TO +90 DEGREES  
 GALACTIC LONGITUDE: 0 TO 360 DEGREES  
 MAGNITUDES:  
 DISTANCE:

FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE

KEY REFERENCE(S)

CRAMPTON, D., LEIR, A., AND YOUNGER, F. - A CATALOGUE OF H-GAMMA MEASURES BY R.M. PETRIE, PUBL. DOM. ASTROPHYS. OBS. XIV, (8), 151, 1973.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

THESE DATA ARE AVAILABLE ON A 9-TRACK, 1600 BPI, EBCDIC, MAGNETIC TAPE.

REMARKS

DOCUMENTATION INCLUDES A PROGRAM INDEX, A DESCRIPTION OF THE CONTENTS AND FORMAT OF THE DATA STORED IN EACH RECORD. ALSO INCLUDED IS A PRINTOUT OF SOME OF THE TAPE. ALL KNOWN ERRATA HAVE BEEN CORRECTED.

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. THERESA A. NAGY	CODE 681 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SUPPLY BLANK MAGNETIC TAPE
DR. JAYLEE MEAD	CODE 680 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SUPPLY BLANK MAGNETIC TAPE

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\* 050 \*  
\*\*\*\*\*

DR. THERESA A. NAGY  
CODE 681  
GODDARD SPACE FLIGHT CENTER  
GREENBELT, MD.  
20771

TELEPHONE: (301) 982-6269

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\* DATA FILE 050C \*  
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\*\*\*\*\* GENERAL CATALOGUE-TRIGONOMETRIC STELLAR PARALLAXES \*\*\*\*\*

6079 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1900)  
5822 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION: TO 1962

OBJECT CLASSES

DATA CATEGORIES

OPTICAL ASTRONOMY  
PARALLAXES

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
<b>POSITIONAL DATA</b>				
RIGHT ASCENSION, DECLINATION	TRANSCR		100	EPOCH 1900
PROPER MOTION (R.A., DEC.)	TRANSCR (REMARKS)		95	ERROR NOT SPECIFIED
PARALLAX, TRIGONOMETRIC	TRANSCR (REMARKS)	AVERAGED	100	ERROR IS SPECIFIED
<b>IDENTIFICATION</b>				
RUNNING NO. IN SOURCE CATALOGUE			100	
HD CATALOGUE NUMBER			95	
DM CATALOGUE NUMBER			90	BD COD CPD
<b>RADIATION</b>				
MAGNITUDES, VISUAL	TRANSCR (HD)		80	
MAGNITUDES, PHOTOGRAPHIC	TRANSCR (HD)		20	
SPECTRAL CLASS	TRANSCR (HD)		90	

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
DECLINATION: -90 TO +90 DEGREES  
SPECTRAL TYPES:  
OTHER:

GALACTIC LATITUDE: 0 TO +90 DEGREES  
GALACTIC LONGITUDE: 0 TO 360 DEGREES  
MAGNITUDES:  
DISTANCE:

FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE

KEY REFERENCE(S)

JENKINS - GENERAL CATALOGUE OF TRIGONOMETRIC STELLAR PARALLAXES.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

THESE DATA ARE AVAILABLE ON A 9-TRACK, 1600 BPI, EBCDIC, MAGNETIC TAPE.

REMARKS

PROPER MOTION SOURCE - ALBANY GENERAL CATALOGUE AND CINCINNATI CATALOGUE. TRIGONOMETRIC PARALLAX-WEIGHTED AND ADJUSTED VALUE PLUS ERRORS FROM 1 OBSERVATORIES. DOCUMENTATION INCLUDES A PROGRAM INDEX, A DESCRIPTION OF THE CONTENTS AND FORMAT OF THE DATA STORED IN EACH RECORD. ALSO INCLUDED IS A PRINTOUT OF SOME OF THE TAPE.

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. THERESA A. NAGY	CODE 681 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SUPPLY BLANK MAGNETIC TAPE
DR. JAYLEE MEAD	CODE 680 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SUPPLY BLANK MAGNETIC TAPE

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 \* 050 \*  
 \*\*\*\*\*

DR. THERESA A. NAGY  
 CODE 681  
 GODDARD SPACE FLIGHT CENTER  
 GREENBELT, MD.  
 20771

TELEPHONE: (301) 982-6269

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 \* DATA FILE 0500 \*\*\*\*\*  
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BREGER SPECTROPHOTOMETRIC SCANNER CATALOG \*\*\*\*\*

937 ENTRIES  
 673 OBJECTS

100% COMPLETE  
 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 DATES OF OBSERVATION:

OBJECT CLASSES

DATA CATEGORIES

OPTICAL ASTRONOMY  
 PHOTOMETRY  
 SPECTROPHOTOMETRY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
IDENTIFICATION				
HD CATALOGUE NUMBER			10	
OTHER IDENTIFICATION NUMBERS			90	HR
RADIATION				
MAGNITUDES, OTHER	TRANSCR	REDUCED	100	AT UP TO 35 WAVELENGTHS
SPECTRAL CLASS	TRANSCR (REMARKS)	REDUCED		
COLORS	TRANSCR (REMARKS)	REDUCED		

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE: -90 TO +90 DEGREES  
 GALACTIC LONGITUDE: 0 TO 360 DEGREES  
 MAGNITUDES:  
 DISTANCE:

FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE

KEY REFERENCE(S)

BREGER.- ASTROPHY. J.SUPPL., 32, 1, SEPT. 1976.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

THESE DATA ARE AVAILABLE ON A 9-TRACK, 1600 BPI, EBCDIC, MAGNETIC TAPE.

REMARKS

COLORS AND SPECTRAL TYPES FROM BLANCO ET AL., 1968, BRIGHT STAR CATALOGUE, OR THE ORIGINAL SPECTROPHOTOMETRIC SOURCE. DOCUMENTATION INCLUDES A PROGRAM INDEX, A DESCRIPTION OF THE CONTENTS AND FORMAT OF THE DATA STORED IN EACH RECORD. ALSO INCLUDED IS A PRINTOUT OF SOME OF THE TAPE.

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. THERESA A. NAGY	CODE 681 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SUPPLY BLANK MAGNETIC TAPE
DR. JAYLEE MEAD	CODE 680 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SUPPLY BLANK MAGNETIC TAPE

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 \* 050 \*  
 \*\*\*\*\*

DR. THERESA A. NAGY  
 CODE 681  
 GODDARD SPACE FLIGHT CENTER  
 GREENBELT, MD.  
 20771

TELEPHONE: (301) 982-6269

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 \* DATA FILE 050E \*  
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\*\*\*\*\* STRONGREN-PERRY PHOTOELECTRIC UVBY PHOTOMETRY \*\*\*\*\*

1217 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 1217 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION: TO 1962

OBJECT CLASSES

DATA CATEGORIES  
 OPTICAL ASTRONOMY  
 PHOTOMETRY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)		100	EPOCH 1950
IDENTIFICATION				
RUNNING NO. IN SOURCE CATALOGUE			100	
HD CATALOGUE NUMBER			100	
DM CATALOGUE NUMBER			100	BD, COD, CPD
OTHER IDENTIFICATION NUMBERS			100	HR
RADIATION				
MAGNITUDES, VISUAL	TRANSCR (REMARKS)		100	
MAGNITUDES, OTHER	TRANSCR (REMARKS)		100	ABSOLUTE VISUAL
SPECTRAL CLASS	TRANSCR (REMARKS)		100	
LUMINOSITY CLASS	TRANSCR (REMARKS)		100	
COLORS	ORIGINAL (REMARKS) REDUCED		100	B-Y, M1=(V-B)-(B-Y), C1=(U-V)-(V-B), B-V

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES: A, F, G  
 OTHER:

GALACTIC LATITUDE: -90 TO +90 DEGREES  
 GALACTIC LONGITUDE: 0 TO 360 DEGREES  
 MAGNITUDES: TO 6.5 (VISUAL)  
 DISTANCE:

FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE

KEY REFERENCE(S)

STRONGREN AND PERRY - PHOTOELECTRIC UVBY PHOTOMETRY FOR 1217 STARS BRIGHTER THAN V=6.5 MAG. MOSTLY OF SPECTRAL CLASSES A, F, AND G.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

THESE DATA ARE AVAILABLE ON A 9-TRACK, 1600 BPI, EBCDIC, MAGNETIC TAPE.

REMARKS

COORDINATES, MAGNITUDES, SPECTRAL AND LUMINOSITY CLASSES, AND B-V COLOR ARE FROM THE YBS CATALOGUE. PHOTOMETRY OBTAINED ON 20-IN, MT. PALOMAR, 36-IN AND 16-IN KITT PEAK FOR U - 3500 Å (300 Å HAVE WIDTH), V - 4110 Å (190 Å HAVE WIDTH), B - 4670 Å (180 Å HAVE WIDTH), AND Y - 5470 Å (230 Å HAVE WIDTH). DOCUMENTATION INCLUDES A PROGRAM INDEX, A DESCRIPTION OF THE CONTENTS AND FORMAT OF THE DATA STORED IN EACH RECORD. ALSO INCLUDED IS A PRINTOUT OF SOME OF THE TAPE.

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. THERESA A. NAGY	CODE 681 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SUPPLY BLANK MAGNETIC TAPE
DR. JAYLEE MEAD	CODE 680 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SUPPLY BLANK MAGNETIC TAPE

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 \* 050 \*  
 \*\*\*\*\*

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 \* DATA FILE 050F \*  
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\*\*\*\*\* YALE BRIGHT STAR CATALOG \*\*\*\*\*

9110 ENTRIES  
 9091 OBJECTS

100% COMPLETE  
 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1900)  
 DATES OF OBSERVATION: TO 1962

# OBJECT CLASSES

# DATA CATEGORIES

CROSS INDEX  
 OPTICAL ASTRONOMY  
 PARALLAXES  
 PHOTOMETRY  
 PROPER MOTIONS  
 RADIAL VELOCITIES  
 SPACE MOTIONS  
 SPECTROSCOPY

# DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
<b>POSITIONAL DATA</b>				
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)	REDUCED	100	EPOCH 1900 AND 2000
GALACTIC COORDINATES			100	SYSTEM II
ANNUAL VARIATION	TRANSCR			RIGHT ASCENSION ONLY
PROPER MOTION (R.A., DEC.)	TRANSCR	REDUCED	100	ERROR NOT SPECIFIED
PARALLAX, TRIGONOMETRIC	TRANSCR (REMARKS)	REDUCED	35	
<b>IDENTIFICATION</b>				
RUNNING NO. IN SOURCE CATALOGUE			100	
HD CATALOGUE NUMBER			100	
DM CATALOGUE NUMBER			100	
OTHER IDENTIFICATION NUMBERS			90	SEE REMARKS
<b>RADIATION</b>				
MAGNITUDES, VISUAL	TRANSCR	REDUCED	100	
MAGNITUDES, PHOTOELECTRIC	TRANSCR (REMARKS)	REDUCED	50	
SPECTRAL CLASS	TRANSCR	REDUCED	75	
COLORS	TRANSCR (REMARKS)	REDUCED	50	B-V
<b>MULTIPLE SYSTEMS</b>				
MAX/MIN MAGNITUDES OF SYSTEM	TRANSCR (REMARKS)	REDUCED	25	
SEPARATION (VISUAL BINARIES)	TRANSCR (REMARKS)	REDUCED	25	

# OTHER

# RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE: -90 TO +90 DEGREES  
 GALACTIC LONGITUDE: 0 TO 360 DEGREES  
 MAGNITUDES: -1.4 TO +6.5 (VISUAL OR PHOTOGRAPHIC)  
 DISTANCE:

FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE

# KEY REFERENCE(S)

HOFFLEIT - YALE UNIVERSITY OBSERVATORY CATALOGUE OF BRIGHT STARS.

# DESCRIPTION OF MACHINE-READABLE DATA FORMS

THESE DATA ARE AVAILABLE ON A 9-TRACK, 1600 BPI, EBCDIC, MAGNETIC TAPE.

# REMARKS

OTHER IDENTIFICATION NUMBERS ARE HR, GC, TRIGONOMETRIC CATALOGUE, RADIAL VELOCITY CATALOGUE, DOUBLE STAR CATALOGUE, AND THE VARIABLE STAR CATALOGUE. MAGNITUDES ARE TAKEN FROM HR OR KLEMOLA. OTHER PRIMARY SOURCES ARE: BOSS - GENERAL CATALOGUE, JENKINS, KUKARKIN ET AL., WILSON, AND AITKEN. DOCUMENTATION INCLUDES A PROGRAM INDEX, A DESCRIPTION OF THE CONTENTS AND FORMAT OF THE DATA STORED IN EACH RECORD. ALSO INCLUDED IS A PRINTOUT OF SOME OF THE TAPE. ALL KNOWN ERRATA HAVE BEEN CORRECTED.

# DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. THERESA A. NAGY	CODE 681 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SUPPLY BLANK MAGNETIC TAPE
DR. JAYLEE MEAD	CODE 680 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SUPPLY BLANK MAGNETIC TAPE

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\* 050 \*  
\*\*\*\*\*

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\* DATA FILE 050G \*\*\*\*\* TWO-MICRON SKY SURVEY \*\*\*\*\*

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5612 ENTRIES  
5612 OBJECTS

100% COMPLETE  
100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: R.A. WITHIN DEC ZONES  
DATES OF OBSERVATION: 1965 TO 1968

OBJECT CLASSES  
-----  
INFRARED SOURCES

DATA CATEGORIES  
-----  
INFRARED ASTRONOMY  
PHOTOMETRY  
POSITIONAL ASTRONOMY

DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
ITEM				
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	ORIGINAL	REDUCED	100	EPOCH 1950
IDENTIFICATION				
RUNNING NO. IN SOURCE CATALOGUE			100	
DM CATALOGUE NUMBER			50	BD COD
OTHER IDENTIFICATION NUMBERS			70	GEN. CAT. OF VARIABLE STARS, BOSS GC
REMARKS			2	
RADIATION				
MAGNITUDES, VISUAL	TRANSCR (REMARKS)	REDUCED	45	
MAGNITUDES, OTHER	ORIGINAL	REDUCED	100	K, I MAGNITUDES
SPECTRAL CLASS	TRANSCR (REMARKS)	REDUCED	45	
LUMINOSITY CLASS	TRANSCR (REMARKS)	REDUCED	15	
VARIABLE STARS				
INDIVIDUAL OBSERVATIONS			19	

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
DECLINATION: -33 TO +81 DEGREES  
SPECTRAL TYPES:  
OTHER:

GALACTIC LATITUDE:  
GALACTIC LONGITUDE:  
MAGNITUDES: -2.0 TO 4.0  
DISTANCE:

FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE

KEY REFERENCE(S)

NEUGEBAUER AND LEIGHTON - TWO-MICRON SKY SURVEY, NASA SP-3047.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

THESE DATA ARE AVAILABLE ON A 9-TRACK, 1600 BPI, EBCDIC, MAGNETIC TAPE.

REMARKS:

VISUAL MAGNITUDES AND SPECTRAL TYPES WERE TAKEN FROM THE YALE BRIGHT STAR CATALOGUE, BOSS GENERAL CATALOGUE, OR SMITHSONIAN ASTROPHYSICAL OBSERVATORY STAR CATALOGUE. THIS SURVEY GIVES BOTH K AND I MAGNITUDES FOR STARS BRIGHTER THAN K=3. DOCUMENTATION INCLUDES A PROGRAM INDEX, A DESCRIPTION OF THE CONTENTS AND FORMAT OF THE DATA STORED IN EACH RECORD. ALSO INCLUDED IS A PRINTOUT OF SOME OF THE TAPE.

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. THERESA A. NAGY	CODE 681 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SUPPLY BLANK MAGNETIC TAPE
DR. JAYLEE MEAD	CODE 680 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SUPPLY BLANK MAGNETIC TAPE

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\* 050 \*  
\*\*\*\*\*

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\* DATA FILE 050H \*\*\*\*\*  
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TEN-MICRON CATALOG \*\*\*\*\*

647 ENTRIES 100% COMPLETE  
647 OBJECTS 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
DATES OF OBSERVATION: TO 1973

OBJECT CLASSES  
-----  
INFRARED SOURCES

DATA CATEGORIES  
-----  
INFRARED ASTRONOMY  
PHOTOMETRY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
<b>POSITIONAL DATA</b>				
RIGHT ASCENSION, DECLINATION	TRANSCR	REDUCED	100	EPOCH 1950
GALACTIC COORDINATES			100	SYSTEM II
PROPER MOTION (R.A., DEC.)	TRANSCR	REDUCED	50	ERROR NOT SPECIFIED
<b>IDENTIFICATION</b>				
RUNNING NO. IN SOURCE CATALOGUE			100	
HD CATALOGUE NUMBER			50	
DM CATALOGUE NUMBER			50	
SAO CATALOGUE NUMBER			50	
OTHER IDENTIFICATION NUMBERS			50	YBS, GC, CAL TECH INFRARED CATALOG
<b>RADIATION</b>				
MAGNITUDES, VISUAL	TRANSCR	REDUCED	80	
MAGNITUDES, OTHER	TRANSCR	REDUCED		I, K, N
FLUX	TRANSCR	REDUCED	100	10 MICRON FLUX
SPECTRAL CLASS	TRANSCR	REDUCED		

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
DECLINATION: -90 TO +90 DEGREES  
SPECTRAL TYPES:  
OTHER:

GALACTIC LATITUDE: -90 TO +90 DEGREES  
GALACTIC LONGITUDE: 0 TO 240 DEGREES  
MAGNITUDES: -8.0 TO 8.0  
DISTANCE:

FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE

KEY REFERENCE(S)

HALL, R.T. - A CATALOG OF 10-MMICRONETER R OBJECTS, REPORT NUMBER SAMSO-TR-74-212, SPACE AND MISSILE SYSTEMS ORGANIZATION, AIR FORCE SYSTEMS COMMAND, LOS ANGELES, CA 90045.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

THESE DATA ARE AVAILABLE ON A 9-TRACK, 1600 BPI, EBCDIC, MAGNETIC TAPE.

REMARKS

INDIVIDUAL OBSERVATIONS AS WELL AS AVERAGES ARE GIVEN. DOCUMENTATION INCLUDES A PROGRAM INDEX, A DESCRIPTION OF THE CONTENTS AND FORMAT OF THE DATA STORED IN EACH RECORD. ALSO INCLUDED IS A PRINTOUT OF SOME OF THE TAPE.

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. THERESA A. NAGY	CODE 681 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SUPPLY BLANK MAGNETIC TAPE
DR. JAYLEE MEAD	CODE 680 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SUPPLY BLANK MAGNETIC TAPE



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 \* 050 \*  
 \*\*\*\*\*

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 20771

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\*\*\*\*\*

\* DATA FILE 0501 \*\*\*\*\* PULSAR CATALOG \*\*\*\*\*

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 149 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 149 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION: TO 1976

OBJECT CLASSES		DATA CATEGORIES		
PULSARS		RADIO ASTRONOMY		
DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	TRANSCR	REDUCED	100	EPOCH 1950
VARIABLE STARS				
PERIOD OF VARIABILITY	TRANSCR	REDUCED	100	RATE OF CHANGE OF PERIOD GIVEN
RANGE OF COVERAGE				
RIGHT ASCENSION:	0 TO 24 HOURS	GALACTIC LATITUDE:		-90 TO +90 DEGREES
DECLINATION:	-90 TO +90 DEGREES	GALACTIC LONGITUDE:		0 TO 360 DEGREES
SPECTRAL TYPES:		MAGNITUDES:		
OTHER:		DISTANCE:		

FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE

KEY REFERENCE(S)

SEIRADAKIS, J. - PULSAR CATALOGUE, MAX PLANCK INSTITUT FUR RADIOASTRONOMIE.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

THESE DATA ARE AVAILABLE ON A 9-TRACK, 1600 BPI, EBCDIC, MAGNETIC TAPE.

REMARKS

GIVES DISPERSION MEASURE FOR ALMOST ALL ENTRIES AND ROTATION MEASURES FOR ABOUT 25%. DOCUMENTATION INCLUDES A PROGRAM INDEX, A DESCRIPTION OF THE CONTENTS AND FORMAT OF THE DATA STORED IN EACH RECORD. ALSO INCLUDED IS A PRINTOUT OF SOME OF THE TAPE.

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. THERESA A. NAGY	CODE 681 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SUPPLY BLANK MAGNETIC TAPE
DR. JAYLEE MEAD	CODE 680 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SUPPLY BLANK MAGNETIC TAPE

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 \* 050 \*  
 \*\*\*\*\*

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\*\*\*\*\*

\* DATA FILE 050J \*\*\*\*\* CATALOGUE OF STELLAR IDENTIFICATIONS (CSI) \*\*\*\*\*

\*\*\*\*\* 430824 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 430824 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION: TO 1976

OBJECT CLASSES

DATA CATEGORIES

CROSS INDEX

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA RIGHT ASCENSION, DECLINATION	TRANSCR		100'	EPOCH 1950
IDENTIFICATION HD CATALOGUE NUMBER DM CATALOGUE NUMBER SAO CATALOGUE NUMBER NGC, IC CATALOGUE NUMBER OTHER IDENTIFICATION NUMBERS CLUSTER, ASSOCIATION MEMBERSHIP				BD COD AND CPD  MOST DESIGNATED BY 0 OR 1 - NOT EXPLICIT
RADIATION MAGNITUDES, VISUAL MAGNITUDES, PHOTOGRAPHIC SPECTRAL CLASS	TRANSCR TRANSCR TRANSCR (HD)			

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE: -90 TO +90 DEGREES  
 GALACTIC LONGITUDE: 0 TO 360 DEGREES  
 MAGNITUDES:  
 DISTANCE:

FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE  
 5 REELS OF MICROFILM-16MM

KEY REFERENCE(S)

JUNG, J. AND BISCHOFF, M. - STRASBOURG INFORMATION BULLETIN, NO. 4, 1973.

DESCRIPTION OF MACHINE-READABLE DATA FORMS.

THESE DATA ARE AVAILABLE ON A 9-TRACK, 1600 OR 6250 BPI, BINARY OR EBCDIC MAGNETIC TAPE, CREATED ON AN IBM 360 COMPUTER.

REMARKS

THE CSI IS FROM THE STRASBOURG OBSERVATORY. FORTRAN CODE HAS BEEN WRITTEN TO UNPACK THE DATA. AN EBCDIC VERSION HAS BEEN PREPARED ON ONE MAGNETIC TAPE. A HARDCOPY OF THE EBCDIC VERSION HAS BEEN PREPARED ON 16MM MICROFILM (5 REELS).

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. THERESA A. NAGY	CODE 681 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SEND BLANK TAPE
DR. JAYLEE MEAD	CODE 680 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SEND BLANK TAPE

\*\*\*\*\*  
 \* 050 \*  
 \*\*\*\*\*

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 \* DATA FILE 050K \*\*\*\*\*  
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BIBLIOGRAPHIC STAR INDEX \*\*\*\*\*

69348 ENTRIES 100% COMPLETE  
 69348 OBJECTS 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: IDENTIFICATION  
 DATES OF OBSERVATION: 1950 TO 1976

# OBJECT CLASSES

# DATA CATEGORIES

# CROSS INDEX

# DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
<b>IDENTIFICATION</b>				
RUNNING NO. IN SOURCE CATALOGUE				
HD CATALOGUE NUMBER				
DM CATALOGUE NUMBER				
SAO CATALOGUE NUMBER				
NGC, IC CATALOGUE NUMBER				
OTHER IDENTIFICATION NUMBERS				
CLUSTER, ASSOCIATION MEMBERSHIP				
OTHER (SEE COMMENTS)				REFERENCES IN LITERATURE
<b>VARIABLE STARS</b>				
OTHER (SEE COMMENTS)				VARIABLE STAR NAMES
<b>MULTIPLE SYSTEMS</b>				
MULTIPLICITY OF SYSTEM				

# RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE: -90 TO +90 DEGREES  
 GALACTIC LONGITUDE: 0 TO 360 DEGREES  
 MAGNITUDES:  
 DISTANCE:

FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE  
 MICROFILM-16MM  
 1 BOUND BOOK

# KEY REFERENCE(S)

CAYREL, R., JUNG, J. AND VALBOUSQUET, A. - STRASBOURG INFORMATION BULLETIN, NO. 6, 1974.

# DESCRIPTION OF MACHINE-READABLE DATA FORMS

THESE DATA ARE AVAILABLE ON A 9-TRACK, 1600 OR 6250 BPI, BINARY OR EBCDIC MAGNETIC TAPE, CREATED ON AN IBM 360 COMPUTER.

# REMARKS

THE BSI WAS OBTAINED FROM THE STRASBOURG OBSERVATORY. A FORTRAN CODE HAS BEEN WRITTEN TO UNPACK THE DATA AND REFERENCE FILES. AN EBCDIC VERSION HAS BEEN PREPARED TO MINIMIZE EFFORT ON THE PART OF THE USER. REFERENCE FILE HAS BEEN PREPARED IN HARD COPY FORM TO BE USED WITH THE MICROFILM COPY OF THE DATA FILE.

# DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. THERESA A. NAGY	CODE 681 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SEND BLANK TAPE
DR. JAYLEE MEAD	CODE 680 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SEND BLANK TAPE

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 \* 050 \*  
 \*\*\*\*\*

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 \* DATA FILE 050L \*\*\*\*\*  
 \*\*\*\*\*

BOSS GENERAL CATALOGUE (GC) \*\*\*\*\*

33342 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 33342 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION:

OBJECT CLASSES

DATA CATEGORIES

ASTROMETRY  
 CROSS INDEX  
 PROPER MOTIONS

DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	ORIGINAL		100	EPOCH 1950
GALACTIC COORDINATES			100	SYSTEM II
ANNUAL VARIATION			100	
SECULAR VARIATION			100	
THIRD TERM			100	
PROPER MOTION (R.A., DEC.)	ORIGINAL		100	ERROR NOT SPECIFIED
IDENTIFICATION				
RUNNING NO. IN SOURCE CATALOGUE			100	
HD CATALOGUE NUMBER			99	
DM CATALOGUE NUMBER			99	BD, COD, CPD
RADIATION				
MAGNITUDES, VISUAL	TRANSCR			
SPECTRAL CLASS	TRANSCR			EBCDIC AND NUMERICALLY CODED

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE: -90 TO +90 DEGREES  
 GALACTIC LONGITUDE: 0 TO 360 DEGREES  
 MAGNITUDES:  
 DISTANCE:

FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE

KEY REFERENCE(S)

BOSS, B. - GENERAL CATALOGUE OF 33342 STARS FOR THE EPOCH 1950, 1937. NAGY, T. AND MEAD, J. - REVISED VERSION OF THE GENERAL CATALOGUE OF 33342 STARS (TO BE PUBLISHED IN THE STRASBOURG INFORMATION BULLETIN).

DESCRIPTION OF MACHINE-READABLE DATA FORMS

THESE DATA ARE AVAILABLE ON A 9-TRACK, 1600 BPI, BINARY MAGNETIC TAPE, CREATED ON AN IBM 360 COMPUTER.

REMARKS

MANY UPDATES AND BYTE UDECODING WERE DONE TO THE INITIAL VERSION OF THIS CATALOGUE AS RECEIVED FROM THE U. S. NAVAL OBSERVATORY. DETAILS OF THE UPDATES ARE GIVEN IN A BRIEF NOTE AS GIVEN IN REFERENCE SECTION. GALACTIC COORDINATES AND BD NUMBERS HAVE BEEN ADDED.

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. THERESA A. NAGY	CODE 681 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SEND BLANK TAPE
DR. JAYLEE MEAD	CODE 680 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SEND BLANK TAPE

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 \* 050 \*  
 \*\*\*\*\*

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 20771

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 \* DATA FILE 050M \*  
 \*\*\*\*\*

\*\*\*\*\* GODDARD CROSS INDEX (HD MASTER) \*\*\*\*\*

272150 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: HD NUMBER  
 272150 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION:

OBJECT CLASSES		DATA CATEGORIES		
		CROSS INDEX		
DATA ITEMS APPEARING IN THE FILE			APPROX.	
ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	% WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
<b>POSITIONAL DATA</b>				
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)		100	EPOCH 1950
PROPER MOTION (R.A., DEC.)	TRANSCR (REMARKS)			ERROR NOT SPECIFIED
<b>IDENTIFICATION</b>				
HD CATALOGUE NUMBER			100	
DM CATALOGUE NUMBER				
SAO CATALOGUE NUMBER				
OTHER IDENTIFICATION NUMBERS			100	SEE REFERENCE REMARKS
<b>RADIATION</b>				
MAGNITUDES, VISUAL	TRANSCR (REMARKS)			
MAGNITUDES, PHOTOGRAPHIC	TRANSCR (REMARKS)			
MAGNITUDES, PHOTOELECTRIC	TRANSCR (REMARKS)			
SPECTRAL CLASS	TRANSCR (REMARKS)			

RANGE OF COVERAGE  
 RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES:  
 OTHER:  
 GALACTIC LATITUDE: -90 TO +90 DEGREES  
 GALACTIC LONGITUDE: 0 TO 360 DEGREES  
 MAGNITUDES:  
 DISTANCE:

FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE

#### KEY REFERENCE(S)

MEAD, J.M. - BAAS, 6, 218, 1974. MEAD, J.M. AND NAGY, T.A. COMPILATION, CRITICAL EVALUATION AND DISTRIBUTION OF STELLAR DATA, PROC. OF IAU COLLOQ., NO. 35, PP 161-166, 1977.

#### DESCRIPTION OF MACHINE-READABLE DATA FORMS

THESE DATA ARE AVAILABLE ON A 9-TRACK, 1600 BPI, BINARY MAGNETIC TAPE, CREATED ON AN IBM 360 COMPUTER.

#### REMARKS

THIS PRELIMINARY VERSION OF THE GXI-HD MASTER HAS THE BASIC IDENTIFYING DATA FROM 11 (HD, GC, TP, UB, YBS, SP, WK, BAT, JAS, BOY, WRV) CATALOGUES MERGED TOGETHER. EACH INDIVIDUAL CATALOGUE HAS BEEN KEPT EXPLICITLY IN THE CROSS INDEX. THIS CATALOGUE WILL BE EXPANDED. SOURCES OF THE DATA (EQUATORIAL COORDINATES, PROPER MOTION, V MAGNITUDE, PHOTOMETRIC MAGNITUDE, AND SPECTRAL TYPE) ARE CODED FOR EACH ENTRY.

#### DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. THERESA A. NAGY	CODE 681 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SEND BLANK TAPE
DR. JAYLEE MEAD	CODE 680 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SEND BLANK TAPE

\*\*\*\*\*  
\* 050 \*  
\*\*\*\*\*DR. THERESA A. NAGY  
CODE 681  
GODDARD SPACE FLIGHT CENTER  
GREENBELT, MD.  
20771

TELEPHONE: (301) 982-6269

\*\*\*\*\*

\* DATA FILE 050N \* SMITHSONIAN ASTROPHYSICAL OBSERVATORY CATALOGUE \*\*\*\*\*

\*\*\*\*\*  
258997 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: R.A. WITHIN DEC ZONES  
258997 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION:

## OBJECT CLASSES

## DATA CATEGORIES

ASTROMETRY  
CROSS INDEX  
PROPER MOTIONS

## DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA RIGHT ASCENSION, DECLINATION PROPER MOTION (R.A., DEC.)	ORIGINAL		100 100	EPOCH 1950 ERROR NOT SPECIFIED
IDENTIFICATION RUNNING NO. IN SOURCE CATALOGUE HD CATALOGUE NUMBER DM CATALOGUE NUMBER SAO CATALOGUE NUMBER OTHER IDENTIFICATION NUMBERS CHARTS AVAILABLE			100  100 100	ADDED BD COD AND CPD SOME GC ETC. SAO CHARTS ARE AVAILABLE
RADIATION MAGNITUDES, VISUAL MAGNITUDES, PHOTOGRAPHIC SPECTRAL CLASS	TRANSCR TRANSCR TRANSCR			SOURCE CATALOGUE DESIGNATED SOURCE CATALOGUE DESIGNATED SOURCE CATALOGUE DESIGNATED

## RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
DECLINATION: -90 TO +90 DEGREES  
SPECTRAL TYPES:  
OTHER:GALACTIC LATITUDE: -90 TO +90 DEGREES  
GALACTIC LONGITUDE: 0 TO 360 DEGREES  
MAGNITUDES:  
DISTANCE:FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE  
4 REELS OF MICROFILM-16MM

## KEY REFERENCE(S)

STAFF SAO - SMITHSONIAN ASTROPHYSICAL OBSERVATORY STAR CATALOG, 1966.

## DESCRIPTION OF MACHINE-READABLE DATA FORMS

THESE DATA ARE AVAILABLE ON A 9-TRACK, 1600 OR 6250 BPI, BINARY OR EBCDIC MAGNETIC TAPE, CREATED ON AN IBM 360 COMPUTER.

## REMARKS

THE SAO/HD TABLE OF CORRESPONDENCES FROM THE STRASBOURG OBSERVATORY WAS USED TO ADD HD AND EXPLICITLY THE DM NUMBERS TO THE SAO CATALOGUE. AN ENTIRE EBCDIC VERSION OF THIS EXPANDED CATALOGUE HAS BEEN PREPARED AS WELL AS A MICROFILM COPY OF THE CATALOGUE. BOTH THE BINARY AND THE EBCDIC VERSIONS OF THE CATALOGUE ARE AVAILABLE SORTED BY INCREASING RIGHT ASCENSION.

## DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. THERESA A. NAGY	CODE 681 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SEND BLANK TAPE
DR. JAYLEE MEAD	CODE 620 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SEND BLANK TAPE

\*\*\*\*\*  
 \* 050 \*  
 \*\*\*\*\*

DR. THERESA A. NAGY  
 CODE 681  
 GODDARD SPACE FLIGHT CENTER  
 GREENBELT, MD.  
 20771

TELEPHONE: (301) 982-6269

\*\*\*\*\*

\* DATA FILE 0500 \*\*\*\*\* GENERAL CATALOGUE OF VARIABLE STARS(1958)-TABLE6 \*\*\*\*\*

\*\*\*\*\*  
 5180 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION  
 5180 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION: TO 1958

OBJECT CLASSES

VARIABLES

DATA CATEGORIES

CROSS INDEX

DATA ITEMS APPEARING IN THE FILE

ITEM

TYPE (AND  
 MAJOR SOURCE)

NATURE  
 OF DATA

APPROX.  
 % WITH  
 THIS  
 GIVEN

COMMENTS AND OTHER INFORMATION

IDENTIFICATION  
 OTHER IDENTIFICATION NUMBERS  
 DM CATALOGUE NUMBER

80  
 100 BD, COD, CPD ARE GIVEN

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE: -90 TO +90 DEGREES  
 GALACTIC LONGITUDE: 0 TO 360 DEGREES  
 MAGNITUDES:  
 DISTANCE:

FORM(S) OF COMPILATION: 1 REEL, MICROFILM 16MM  
 1 DIGITAL MAGNETIC TAPE

KEY REFERENCE(S)

GENERAL CATALOGUE OF VARIABLE STARS, 2ND EDITION, VOLUME 2, TABLE 6..LIST OF VARIABLE STARS CONTAINED IN  
 THE BD, COD AND CPD CATALOGUES.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

9 TRACK, 1600 BPI, EBCDIC

REMARKS

OTHER CROSS-REFERENCES: CATALOGUE OF SUSPECTED VARIABILITY, VARIABLE STAR NUMBER. DOCUMENTATION AND  
 PRINTED COPIES OF THE FIRST, SECOND, AND NEXT TO LAST DATA BLOCKS ARE AVAILABLE. THE CATALOGUE WAS  
 MADE MACHINE READABLE BY THE OBSERVATORY AT WELLESLEY COLLEGE.

DISTRIBUTORS OF THE DATA SET

NAME

ADDRESS

CONDITIONS AND COMMENTS

DR. THERESA A. NAGY

CODE 681  
 GODDARD SPACE FLIGHT CENTER  
 GREENBELT, MD. 20771

SEND BLANK TAPE

\*\*\*\*\*  
 \* 050 \*  
 \*\*\*\*\*

DR. THERESA A. NAGY  
 CODE 681  
 GODDARD SPACE FLIGHT CENTER  
 GREENBELT, MD.  
 20771

TELEPHONE: (301) 982-6269

\*\*\*\*\*  
 \* DATA FILE 050P \*\*\*\*\*  
 \*\*\*\*\*

B.T. LYND'S CATALOGUE OF BRIGHT NEBULAE

1125 ENTRIES  
 1125 OBJECTS

100% COMPLETE  
 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: GALACTIC LONGITUDE  
 DATES OF OBSERVATION: TO 1965

OBJECT CLASSES

REFLECTION NEBULAE  
 H II REGIONS  
 EMISSION NEBULAE

DATA CATEGORIES

OPTICAL ASTRONOMY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
------	-------------------------	----------------	---------------------------	--------------------------------

POSITIONAL DATA  
 GALACTIC COORDINATES  
 RIGHT ASCENSION, DECLINATION

ORIGINAL

REDUCED

100

SYSTEM II  
 1950

IDENTIFICATION  
 OTHER (SEE COMMENTS)  
 OTHER IDENTIFICATION NUMBERS  
 NGC, IC CATALOGUE NUMBER

ORIGINAL (REMARKS)

100

20

10

ID# BASED ON ISOLATION/HIGH DENSITY

RADIATION  
 MAGNITUDES, OTHER  
 COLORS

ORIGINAL (REMARKS)

100

ORIGINAL (REMARKS)

100

SCALE OF 1 TO 6

SCALE OF 1 TO 4

DERIVED QUANTITIES

ORIGINAL (REMARKS)

100

MAX & MIN DIM, AREA

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE: -90 TO +90 DEGREES  
 GALACTIC LONGITUDE: 0 TO 360 DEGREES  
 MAGNITUDES:  
 DISTANCE:

FORM(S) OF COMPILATION: 1 REEL 16MM MICROFILM  
 1 DIGITAL MAGNETIC TAPE

KEY REFERENCE(S)

APJ SUPPLEMENT #165, V12, PP163-186, AUG. 1965 GENERAL TABLE OF ALL NOMENCLATURES.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

REMARKS

OTHER IDENTIFICATIONS INCLUDE SHARPLESS HIT REGIONS, CEDERBLAD CATALOGUE OF DIFFUSE GALACTIC NEBULAE, AND DORSCHNER & GÜRTLER NUMBERS. DOCUMENTATION AND PRINTED COPIES OF THE FIRST, SECOND, LAST AND NEXT TO LAST DATA BLOCKS ARE AVAILABLE.

DISTRIBUTORS OF THE DATA SET

NAME  
 DR. THERESA A. NAGY

ADDRESS  
 CODE 681  
 GODDARD SPACE FLIGHT CENTER  
 GREENBELT, MD 20771

CONDITIONS AND COMMENTS  
 SEND BLANK TAPE



\*\*\*\*\*  
 \* 050 \*  
 \*\*\*\*\*

DR. THERESA A. NAGY  
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 GODDARD SPACE FLIGHT CENTER  
 GREENBELT, MD.  
 20771

TELEPHONE: (301) 982-6269

\*\*\*\*\*

\* DATA FILE 0500 \*\*\*\*\* GENERAL CATALOGUE OF VARIABLE STARS (1958)-TABLE1 \*\*\*\*\*

\*\*\*\*\*

13078 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: GCVS 10  
 13078 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION: TO 1958

OBJECT CLASSES

VARIABLES

DATA CATEGORIES

CROSS INDEX

DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
IDENTIFICATION				
HD CATALOGUE NUMBER			50	
DM CATALOGUE NUMBER			40	BD, COD, CPD, ARE GIVEN.
OTHER IDENTIFICATION NUMBERS			95	

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE: -90 TO +90 DEGREES  
 GALACTIC LONGITUDE: 0 TO 360 DEGREES  
 MAGNITUDES:  
 DISTANCE:

FORM(S) OF COMPILATION: 1, DIGITAL MAGNETIC TAPE

KEY REFERENCE(S)

GENERAL CATALOGUE OF VARIABLE STARS, 2ND EDITION, VOLUME 2, TABLE 1. GENERAL TABLE OF ALL NOMENCLATURES.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

REMARKS

OTHER CROSS-REFERENCES: FLAMSTEED, NO, GC, AN, HV (HARVARD), SVS (USSR), S (SONNBERG), P (PRAGER), CSV, ROSS, ZINNER, OV (OKLAHOMA), NOVA, BV (BAMBERG), INNES, VB (BOLOGNA), VV (VATICAN), TV (TOKYO). DOCUMENTATION AND WRITTEN COPIES OF THE FIRST, SECOND, LAST, AND SECOND TO LAST BLOCKS ARE AVAILABLE. THE CATALOGUE WAS KEYPUNCHED BY THE OBSERVATORY AT WELLESLEY COLLEGE.

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
DR. THERESA A. NAGY	CODE 681 GODDARD SPACE FLIGHT CENTER GREENBELT, MD. 20771	SEND BLANK TAPE

\*\*\*\*\*  
 \* 050 \*  
 \*\*\*\*\*

DR. THERESA A. NAGY  
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 GODDARD SPACE FLIGHT CENTER  
 GREENBELT, MD.  
 20771

TELEPHONE: (301) 982-6269

\*\*\*\*\*  
 \* DATA FILE 050R \*\*\*\*\*  
 \*\*\*\*\*

FAIRALL COMPACT AND BRIGHT NUCLEUS GALAXIES \*\*\*\*\*

169 ENTRIES  
 169 OBJECTS

100% COMPLETE  
 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 DATES OF OBSERVATION: TO 1962

OBJECT CLASSES  
 -----  
 GALAXIES

DATA CATEGORIES  
 -----  
 SPECTROSCOPY  
 ROTATIONAL VELOCITIES  
 OPTICAL ASTRONOMY  
 OPTICAL ASTRONOMY

DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
ITEM				
POSITIONAL DATA				EPOCH 1950
RIGHT ASCENSION, DECLINATION				
IDENTIFICATION				
RUNNING NO. IN SOURCE CATALOGUE			100	
HD CATALOGUE NUMBER			100	
DM CATALOGUE NUMBER			1	BD COD CPD

#### RANGE OF COVERAGE

RIGHT ASCENSION: 13 TO 07 HOURS  
 DECLINATION: 20 TO 80 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE: -90 TO +90 DEGREES  
 GALACTIC LONGITUDE: 0 TO 360 DEGREES  
 MAGNITUDES:  
 DISTANCE:

#### KEY REFERENCE(S)

BOYARCHUK, KOPYLOV: ACADEMY OF SCIENCE OF THE USSR ISV. KRYMSKOI ASTROPHY. OBS. VOL. 31, 44(1964).

#### DESCRIPTION OF MACHINE-READABLE DATA FORMS

MAGNETIC TAPE 1600 BPI 9-TRACK EBCDIC

#### REMARKS

DOCUMENTATION INCLUDES A PROGRAM INDEX, A DESCRIPTION OF THE CONTENTS AND FORMAT OF THE DATA STORED IN EACH RECORD. ALSO INCLUDED IS A PRINTOUT OF SOME OF THE TAPE AND A XEROX COPY OF THE INTRODUCTION TO THE BOYARCHUK-KOPYLOV ARTICLE (IN RUSSIAN) WHICH CONTAINS A SHORT TABLE OF REMARKS.

#### DISTRIBUTORS OF THE DATA SET

NAME-----  
 DR. THERESA A. NAGY

-----ADDRESS-----  
 CODE 681  
 GODDARD SPACE FLIGHT CENTER  
 GREENBELT, MD. 20771

-----CONDITIONS AND COMMENTS-----  
 SUPPLY BLANK MAGNETIC TAPE

\*\*\*\*\*  
 \* 050 \*  
 \*\*\*\*\*

DR. THERESA A. NAGY  
 CODE 681  
 GODDARD SPACE FLIGHT CENTER  
 GREENBELT, MD.  
 20771

TELEPHONE: (301) 982-6269

\*\*\*\*\*

\* DATA FILE 050S \*\*\*\*\* B.T. LYND'S CATALOGUE OF DARK NEBULAE \*\*\*\*\*

\*\*\*\*\* 1791 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: GALACTIC LONGITUDE  
 1791 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION:

OBJECT CLASSES		DATA CATEGORIES		
		OPTICAL ASTRONOMY		
DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA RIGHT ASCENSION, DECLINATION	ORIGINAL	AVERAGED	100	EPOCH: 1950
IDENTIFICATION OTHER IDENTIFICATION NUMBERS			5	BARNARD NUMBERS
RADIATION OTHER (SEE COMMENTS)	ORIGINAL	AVERAGED	100	OPA CITY, SCALE 1 TO 6
OTHER OTHER (SEE COMMENTS)	ORIGINAL	AVERAGED	100	AREA IN SQUARE DEGREES
RANGE OF COVERAGE				
RIGHT ASCENSION:	00 TO 24 HOURS	GALACTIC LATITUDE:		-90 TO +90 DEGREES
DECLINATION:	-90 TO +90 DEGREES	GALACTIC LONGITUDE:		0 TO 360 DEGREES
SPECTRAL TYPES:		MAGNITUDES:		
OTHER:		DISTANCE:		
FORM(S) OF COMPILATION: 1 MICROFILM 1 DIGITAL MAGNETIC TAPE				
KEY REFERENCE(S) ASTROPHYSICAL JOURNAL, SUPPLEMENT SERIES, NO. 64, VOL. 7, PP1-52 MAY 1962.				
DESCRIPTION OF MACHINE-READABLE DATA FORMS 1600 BPI, 9-TRACK, EBCDIC				
REMARKS THIS IS AN UPDATED VERSION (BY B.T. LYND'S) OF THE ORIGINAL CATALOGUE REFERRED TO IN THE REFERENCE. DOCUMENTATION IS AVAILABLE, AS WELL AS A PRINTOUT CONTAINING SECTIONS OF THE TAPE; FIRST, SECOND-LAST, AND NEXT TO LAST BLOCKS, AND THE FIRST AND LAST RECORDS OF EACH BLOCK.				
DISTRIBUTORS OF THE DATA SET				
NAME	ADDRESS		CONDITIONS AND COMMENTS	
DR. THERESA A. NAGY	CODE 681 GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771		SEND BLANK TAPE	

\*\*\*\*\*  
 \* 050 \*  
 \*\*\*\*\*

DR. THERESA A. NAGY  
 CODE 681  
 GODDARD SPACE FLIGHT CENTER  
 GREENBELT, MD.  
 20771

TELEPHONE: (301) 982-6269

\*\*\*\*\*  
 \* DATA FILE 050T \*  
 \*\*\*\*\*

\*\*\*\*\* BOYARCHUK-KOPYLOV ROTATIONAL-VELOCITY CATALOGUE \*\*\*\*\*

\*\*\*\*\* 2559 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1900)  
 2559 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION: TO 1962

OBJECT CLASSES

DATA CATEGORIES

SPECTROSCOPY  
 ROTATIONAL VELOCITIES  
 OPTICAL ASTRONOMY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
IDENTIFICATION				
RUNNING NO. IN SOURCE CATALOGUE			100	
HD CATALOGUE NUMBER			100	
DM CATALOGUE NUMBER			1	BD COD CPD

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE: -90 TO +90 DEGREES  
 GALACTIC LONGITUDE: 0 TO 360 DEGREES  
 MAGNITUDES:  
 DISTANCE:

FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE

KEY REFERENCE(S)

BOYARCHUK, KOPYLOV: ACADEMY OF SCIENCE OF THE USSR ISV. KRYMSKOI ASTROPHY. OBS. VOL. 31, 44(1964).

DESCRIPTION OF MACHINE-READABLE DATA FORMS

MAGNETIC TAPE 1600 BPI 9-TRACK EBCDIC

REMARKS

DOCUMENTATION INCLUDES A PROGRAM INDEX, A DESCRIPTION OF THE CONTENTS AND FORMAT OF THE DATA STORED IN EACH RECORD. ALSO INCLUDED IS A PRINTOUT OF SOME OF THE TAPE AND A XEROX COPY OF THE INTRODUCTION TO THE BOYARCHUK-KOPYLOV ARTICLE (IN RUSSIAN) WHICH CONTAINS A SHORT TABLE OF REMARKS.

DISTRIBUTORS OF THE DATA SET

NAME-----  
 DR. THERESA A. NAGY

ADDRESS-----  
 CODE 681  
 GODDARD SPACE FLIGHT CENTER  
 GREENBELT, MD. 20771

CONDITIONS AND COMMENTS  
 SUPPLY BLANK MAGNETIC TAPE

\*\*\*\*\*  
 \* 060 \*  
 \*\*\*\*\*

MS. MARCIA NEUGEBAUER  
 MAIL CODE 183-401  
 JET PROPULSION LABORATORY  
 4800 OAK GROVE DRIVE  
 PASADENA, CA  
 91103

TELEPHONE: (213) 354-5182

\*\*\*\*\*

\* DATA FILE 060A \*\*\*\*\* TWO MICRON ORIGINAL SKY SURVEY \*\*\*\*\*

\*\*\*\*\*

5612 ENTRIES 100% COMPLETE  
 5612 OBJECTS 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: R.A. WITHIN DEC ZONES  
 DATES OF OBSERVATION: 1965 TO 1968

OBJECT CLASSES  
 -----  
 INFRARED SOURCES

DATA CATEGORIES  
 -----  
 INFRARED ASTRONOMY  
 PHOTOMETRY  
 POSITIONAL ASTRONOMY

DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
ITEM				
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	ORIGINAL	REDUCED	100	EPOCH 1950
IDENTIFICATION				
RUNNING NO. IN SOURCE CATALOGUE			100	
DM CATALOGUE NUMBER			50	BD COD
OTHER IDENTIFICATION NUMBERS			70	GEN. CAT. OF VARIABLE STARS, BOSS GC
REMARKS			2	
RADIATION				
MAGNITUDES, VISUAL	TRANSCR (REMARKS)	REDUCED	45	
MAGNITUDES, OTHER	ORIGINAL	REDUCED	100	K, I MAGNITUDES
SPECTRAL CLASS	TRANSCR	REDUCED	45	
LUMINOSITY CLASS	TRANSCR	REDUCED	15	
VARIABLE STARS				
INDIVIDUAL OBSERVATIONS			19	
RANGE OF COVERAGE				
RIGHT ASCENSION:	0 TO 24 HOURS			GALACTIC LATITUDE:
DECLINATION:	-33 TO +81 DEGREES			GALACTIC LONGITUDE:
SPECTRAL TYPES:				MAGNITUDES: -2.0 TO 4.0
OTHER:				DISTANCE:
FORM(S) OF COMPILATION:	1 DIGITAL MAGNETIC TAPE			
KEY REFERENCE(S)	NEUGEBAUER AND LEIGHTON - TWO MICRON SKY SURVEY, NASA SP-3047.			
DESCRIPTION OF MACHINE-READABLE DATA FORMS	THESE DATA ARE AVAILABLE ON A 7-TRACK, 800 BPI, BCD, MAGNETIC TAPE.			
REMARKS	VISUAL MAGNITUDES AND SPECTRAL TYPES WERE TAKEN FROM THE YALE BRIGHT STAR CATALOGUE, BOSS GENERAL CATALOGUE, OR SMITHSONIAN ASTROPHYSICAL OBSERVATORY CATALOGUE. THIS SURVEY GIVES BOTH K AND I MAGNITUDES FOR STARS BRIGHTER THEN K=3.			

## DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
MR. WILLIAM VALENTE	CODE 601 NATIONAL SPACE SCIENCE DATA CENTER GODDARD SPACE FLIGHT CENTER GREENBELT, MD 20771	SUPPLY BLANK MAGNETIC TAPE

\*\*\*\*\*  
 \* 069 \*  
 \*\*\*\*\*

MR. ARNOLD NOEL ARGUE  
 UNIVERSITY OF CAMBRIDGE  
 INSTITUTE OF ASTRONOMY  
 THE OBSERVATORIES  
 MADINGLEY ROAD  
 CAMBRIDGE CB3 0HA  
 UNITED KINGDOM

TELEPHONE:

\*\*\*\*\*

\* DATA FILE 069A \*\*\*\*\* ZWICKY CATALOGUE OF GALAXIES \*\*\*\*\*

\*\*\*\*\*

N/A ENTRIES  
 N/A OBJECTS

N/A% COMPLETE  
 N/A% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: DECLINATION (1950)  
 DATES OF OBSERVATION: 1950 TO 1965

OBJECT CLASSES  
 -----  
 GALAXIES

DATA CATEGORIES  
 -----  
 RADIAL VELOCITIES  
 POSITIONAL ASTRONOMY  
 PHOTOMETRY

DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
ITEM				
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	ORIGINAL	REDUCED	100	EPOCH: 1950
IDENTIFICATION				
NGC, IC CATALOGUE NUMBER				
RADIATION				
MAGNITUDES, PHOTOGRAPHIC	ORIGINAL	REDUCED	100	
OTHER				
OTHER (SEE COMMENTS)				
RADIAL VELOCITY	TRANSCR (REMARKS)	REDUCED		PECULIARITIES OF INDIVIDUALS

#### RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: 0 TO +90 DEGREES  
 SPECTRAL TYPES:  
 OTHER: GALAXIES ONLY

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES: TO 15.5 (VISUAL)  
 DISTANCE:

#### FORM(S) OF COMPILATION: 6 BOUND BOOKS

1 DIGITAL MAGNETIC TAPE

#### KEY REFERENCE(S)

CATALOGUE OF GALAXIES AND CLUSTERS OF GALAXIES, F. ZWICKY ET AL 1961, CALIFORNIA INSTITUTE OF TECHNOLOGY. THIS TAPE DOES NOT INCLUDE CLUSTERS OF GALAXIES.

#### DESCRIPTION OF MACHINE-READABLE DATA FORMS

1CL 1903T .556 BPI 7- TRACK, BCD, ODD PARITY

#### REMARKS

CATALOGUE OF POSITIONS, NGC/IC CROSS IDENTIFICATIONS, RADIAL VELOCITIES (HUMASON, MAYALL AND SANDAGE DATA), MAGNITUDES AND PECULIARITIES OF GALAXIES BRIGHTER THAN MAG. 15.5. ORIGINATOR: C. MOSS, ROYAL GREENWICH OBSERVATORY.

#### DISTRIBUTORS OF THE DATA SET

NAME-----  
 MR. ARNOLD NOEL ARGUE

-----ADDRESS-----  
 UNIVERSITY OF CAMBRIDGE  
 INSTITUTE OF ASTRONOMY  
 THE OBSERVATORIES  
 MADINGLEY ROAD  
 CAMBRIDGE CB3 0HA  
 UNITED KINGDOM

-----CONDITIONS AND COMMENTS-----  
 SEND BLANK TAPE

\*\*\*\*\*  
 \* 069 \*  
 \*\*\*\*\*

MR. ARNOLD NOEL ARGUE  
 UNIVERSITY OF CAMBRIDGE  
 INSTITUTE OF ASTRONOMY  
 THE OBSERVATORIES  
 MADINGLEY ROAD  
 CAMBRIDGE CB3 0HA  
 UNITED KINGDOM

TELEPHONE:

\*\*\*\*\*

\* DATA FILE 069B \*\*\*\*\* ENERGY DISTRIBUTION IN STELLAR SPECTRA \*\*\*\*\*

\*\*\*\*\*

167 ENTRIES N/A% COMPLETE PRIMARY SEQUENCE OF ORDERING:  
 49 OBJECTS N/A% MACHINE-READABLE DATES OF OBSERVATION: 1960 TO 1970

OBJECT CLASSES

O STARS  
 M STARS  
 M GIANTS  
 M DWARFS  
 K STARS  
 K GIANTS  
 G STARS  
 F STARS  
 F GIANTS  
 B STARS  
 A STARS

DATA CATEGORIES

SPECTROPHOTOMETRY

DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
RADIATION				
FLUX	ORIGINAL (REMARKS)	REDUCED	100	
SPECTRAL CLASS	TRANSCR (REMARKS)	REDUCED	100	
LUMINOSITY CLASS	TRANSCR (REMARKS)	REDUCED	100	

RANGE OF COVERAGE

RIGHT ASCENSION:

DECLINATION:

SPECTRAL TYPES: 0 TO M2

OTHER: LUMINOSITIES

GALACTIC LATITUDE:

GALACTIC LONGITUDE:

MAGNITUDES:

DISTANCE:

FORM(S) OF COMPILATION: 780 PUNCHED COMPUTER CARDS  
 1 DIGITAL MAGNETIC TAPE  
 2 BOUND BOOKS

KEY REFERENCE(S)

V. STRAIZYS AND Z. SVIDERSKIENE VILNIUS BULLETINS 35, 34, 1972.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

CARDS (EBCDIC) MAG. TAPE: IBM 370, 800 BPI, 9-TRACK, ODD PARITY

REMARKS

SPECTROPHOTOMETRIC DATA BASED PARTLY ON OBSERVATIONS BY AUTHORS AND PARTLY ON PUBLISHED DATA (VARIOUS SOURCES). ORIGINATOR: CARDS BY D.H.P. JONES, TAPE BY A.N. ARGUE.

DISTRIBUTORS OF THE DATA SET

NAME-----  
 MR. ARNOLD NOEL ARGUE

ADDRESS-----  
 UNIVERSITY OF CAMBRIDGE  
 INSTITUTE OF ASTRONOMY  
 THE OBSERVATORIES  
 MADINGLEY ROAD  
 CAMBRIDGE CB3 0HA  
 UNITED KINGDOM

CONDITIONS AND COMMENTS  
 MAG. TAPE AND CARDS  
 SEND BLANK TAPE

D. H. P. JONES

ROYAL GREENWICH OBSERVATORY  
 HERSTMENCEUY CASTLE  
 HAILSHAM  
 E. SUSSEX BN27 1RP,  
 UNITED KINGDOM

CONDITION UNK HERE CARDS ONLY

\*\*\*\*\*  
 \* 069 \*  
 \*\*\*\*\*

MR. ARNOLD NOEL ARGUE  
 UNIVERSITY OF CAMBRIDGE  
 INSTITUTE OF ASTRONOMY  
 THE OBSERVATORIES  
 MADINGLEY ROAD  
 CAMBRIDGE CB3 0HA  
 UNITED KINGDOM

TELEPHONE:

\*\*\*\*\*  
 \* DATA FILE 069C \*  
 \*\*\*\*\*

\*\*\*\*\* BRORFELDE CATALOGUE (QSO FIELDS) 1975-1976 \*\*\*\*\*

17 ENTRIES  
 712 OBJECTS

N/AZ COMPLETE  
 N/AZ MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1975)  
 DATES OF OBSERVATION: TO 1976

OBJECT CLASSES

DATA CATEGORIES

PHOTOMETRY  
 ASTROMETRY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA OTHER (SEE COMMENTS) RIGHT ASCENSION, DECLINATION	ORIGINAL	REDUCED	100	PARALLAX FACTOR IN RA AND DEC EQUATOR AND EQUINOX 1950 D, EPOCH-1976
IDENTIFICATION OTHER (SEE COMMENTS) RUNNING NO. IN SOURCE CATALOGUE DM CATALOGUE NUMBER	TRANSCR (REMARKS)		90 100 70	AGK, FK4, GC BD
RADIATION MAGNITUDES, VISUAL	TRANSCR	REDUCED	100	

RANGE OF COVERAGE

RIGHT ASCENSION: 1 TO 23 HOURS  
 DECLINATION: -08 TO +80 DEGREES  
 SPECTRAL TYPES: ALL  
 OTHER:

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES: -2.0 TO (VISUAL)  
 DISTANCE:

FORM(S) OF COMPILATION: 712 PUNCHED COMPUTER CARDS  
 1 DIGITAL MAGNETIC TAPE  
 1 BOUND BOOK

KEY REFERENCE(S)

ASTRONOMY AND ASTROPHYSICS SUPPL. 30 866 1977

DESCRIPTION OF MACHINE-READABLE DATA FORMS

CARDS(EBCDIC, MAG. TAPE IBM 370, 800 BPI, 9-TRACK, EBCDIC, ODD PARITY).

REMARKS

CATALOGUE OF POSITIONS OF 712 STARS FROM 43 AREAS SURROUNDING RADIO SOURCES, 1975-1976. ORIGINATOR  
 : CARDS BY H.J. FOGH OLSEN AND L. HELMER, COPENHAGEN, TAPE BY A.N. ARGUE, CAMBRIDGE, U.K.

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
MR. ARNOLD NOEL ARGUE	UNIVERSITY OF CAMBRIDGE INSTITUTE OF ASTRONOMY THE OBSERVATORIES MADINGLEY ROAD CAMBRIDGE CB3 0HA UNITED KINGDOM	SUPPLY BLANK TAPE
H. J. FOGH OLSEN	COPENHAGEN UNIVERSITY OBSERVATORY BRORFELDE, DK-4340 TOLLOSE DENMARK	CONDITIONS NOT KNOWN HERE CARDS ONLY
L. HELMER	COPENHAGEN UNIVERSITY OBSERVATORY BRORFELDE, DK-4340 TOLLOSE DENMARK	CONDITIONS NOT KNOWN HERE CARDS ONLY



\*\*\*\*\*  
 \* 069 \*  
 \*\*\*\*\*

MR. ARNOLD NOEL ARGUE  
 UNIVERSITY OF CAMBRIDGE  
 INSTITUTE OF ASTRONOMY  
 THE OBSERVATORIES  
 MADINGLEY ROAD  
 CAMBRIDGE CB3 0HA  
 UNITED KINGDOM

TELEPHONE:

\*\*\*\*\*  
 \* DATA FILE 0690 \* \*\*\*\*\* YALE-AGK2 OVERLAY CATALOGUE \*\*\*\*\*  
 \*\*\*\*\*

N/A ENTRIES  
 200000 OBJECTS

N/A% COMPLETE  
 N/A% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: DECLINATION (1930)  
 DATES OF OBSERVATION: 1975 TO 1930

## OBJECT CLASSES

## DATA CATEGORIES

PHOTOMETRY  
 ASTROMETRY

DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
ITEM				
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)	REDUCED	100	EQUATOR AND EQUINOX 1950, D EPOCH 1930
IDENTIFICATION				
OTHER IDENTIFICATION NUMBERS			100	
RADIATION				
MAGNITUDES, PHOTOGRAPHIC	TRANSCR (REMARKS)	REDUCED	90	

## RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: +90 TO -31 DEGREES  
 SPECTRAL TYPES: ALL  
 OTHER:

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES: +6.0 TO 11.0 (VISUAL)  
 DISTANCE:

FORM(S) OF COMPILATION: 1 DIGITAL MAGNETIC TAPE  
 13 BOUND BOOKS

## KEY REFERENCE(S)

YALE ZONE CATALOGUE (YALE TRANSACTIONS VOLS. 5,11,12,13,14,16, 17,21,22) AND AGK2 .

## DESCRIPTION OF MACHINE-READABLE DATA FORMS

IBM 360, 9TRACK MAG TAPE, 800 BPI, BINARY

## REMARKS

CATALOGUE OF STAR POSITIONS FROM YALE ZONE CATALOGUE SOUTH OF DECLINATION -2 DEGREES, AND AGK2 NORTH OF -2 DEGREES. ORIGINATOR: R. EBERS, C.I.T.

## DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
MR. ARNOLD NOEL ARGUE	UNIVERSITY OF CAMBRIDGE INSTITUTE OF ASTRONOMY THE OBSERVATORIES MADINGLEY ROAD CAMBRIDGE CB3 0HA UNITED KINGDOM	SUPPLY BLANK TAPE
R. EBERS	CALIFORNIA INSTITUTE OF TECHNOLOGY 1201 EAST CALIFORNIA BLVD. PASADENA, CA 91109	CONDITIONS NOT KNOWN HERE

\*\*\*\*\*  
 \* 170 \*  
 \*\*\*\*\*

J. C. MERMILLIOD  
 INSTITUT D'ASTRONOMIE  
 LAUSANNE UNIVERSITE  
 1290 CHAVANNES-DES-BOIS  
 SWITZERLAND

TELEPHONE:

\*\*\*\*\*

\* DATA FILE 170A \*\*\*\*\* CAT HD-HDE AND DM IDS FOR STARS IN OPEN CLUSTERS \*\*\*\*\*

\*\*\*\*\*

N/A ENTRIES 85% COMPLETE PRIMARY SEQUENCE OF ORDERING:  
 7196 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION:

OBJECT CLASSES

DATA CATEGORIES

CROSS INDEX

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
------	----------------------------	-------------------	------------------------------------	--------------------------------

IDENTIFICATION

HD CATALOGUE NUMBER  
 DM CATALOGUE NUMBER  
 OTHER (SEE COMMENTS)

CLUSTER IDENTIFICATION

RANGE OF COVERAGE

RIGHT ASCENSION:  
 DECLINATION:  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES:  
 DISTANCE:

FORM(S) OF COMPILATION: 9 DIGITAL MAGNETIC TAPES  
 MICROFICHES

KEY REFERENCE(S)

- ASTRON. AND ASTROPHYS. SUPPL. 26, 419, 1976.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

AS THESE DATA ARE DISTRIBUTED BY THE STELLAR DATA CENTER, IT IS POSSIBLE TO DISTRIBUTE THEM IN VARIOUS WAYS.

REMARKS

DISTRIBUTORS OF THE DATA SET

NAME

DR. C. JASCHKE

ADDRESS

CENTRE DE DONNEES STELLAIRES  
 OBSERVATOIRE DE STRASBOURG  
 11 RUE DE L'UNIVERSITE  
 67000 STRASBOURG  
 FRANCE

CONDITIONS AND COMMENTS

\*\*\*\*\*  
\* 173 \*  
\*\*\*\*\*

DR. NANCY HOUK  
DEPT. OF ASTRONOMY  
1045 DENNISON BLDG.  
UNIVERSITY OF MICHIGAN  
ANN ARBOR MI.  
48109

TELEPHONE: ( ) 764-3436

\*\*\*\*\*

\* DATA FILE 173A \* \*\*\*\*\* MICH SPECTRAL-VOL2 HD STARS, D=-53 TO -40DEG \*\*\*\*\*

\*\*\*\*\* 30400 ENTRIES .95% COMPLETE PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1900)  
30400 OBJECTS 80% MACHINE-READABLE DATES OF OBSERVATION: 1967 TO 1977

OBJECT CLASSES

DATA CATEGORIES

OPTICAL ASTRONOMY  
SPECTROSCOPY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
<b>POSITIONAL DATA</b>				
GALACTIC COORDINATES			100	SYSTEM 11
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)		100	1900
SECULAR VARIATION			100	
<b>IDENTIFICATION</b>				
NGC, IC CATALOGUE NUMBER			1	
HD CATALOGUE NUMBER			100	
OTHER IDENTIFICATION NUMBERS				HR NO. (IN REMARKS)
DM CATALOGUE NUMBER			100	COD, CPD, BOTH GIVEN
REMARKS				
<b>RADIATION</b>				
SPECTRAL CLASS	ORIGINAL		100	
OTHER (SEE COMMENTS)				QUALITY OF SPECTRAL TYPE 1-4
LUMINOSITY CLASS	ORIGINAL		94	
MAGNITUDES, PHOTOGRAPHIC	TRANSCR (HD)		100	
EMISSION/ABSORPTION LINES				
<b>VARIABLE STARS</b>				
MAXIMUM AND MINIMUM MAGNITUDES	TRANSCR (REMARKS)		15	
TYPE OF VARIABILITY			2	
PERIOD OF VARIABILITY	TRANSCR		005	GCVS
<b>MULTIPLE SYSTEMS</b>				
SEPARATION (VISUAL BINARIES)	TRANSCR		10	ALL VIS DBLES LISTED WHERE SP. TYPES MAY BE AFFECTED
<b>OTHER</b>				
ROTATIONAL VELOCITY	TRANSCR		005	
<b>RANGE OF COVERAGE</b>				
RIGHT ASCENSION:	0 TO 24 HOURS			GALACTIC LATITUDE:
DECLINATION:	-53 TO -40 DEGREES			GALACTIC LONGITUDE:
SPECTRAL TYPES:	ALL			MAGNITUDES:
OTHER:				DISTANCE:
				4.0 TO 11.0 (PHOTOGRAPHIC)

FORM(S) OF COMPILATION: DIGITAL MAG. TAPES  
BOUND BOOKS

KEY REFERENCE(S)

UNIVERSITY OF MICHIGAN CATALOGUE OF TWO DIMENSIONAL SPECTRAL TYPES FOR THE HD STARS: VOLUME 1  
DECL=-90DEG. TO -53 DEG., VOLUME 2 DECL=-53 DEG. TO -40 DEG.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

REMARKS

L AND B WERE PROVIDED BY GOTTLIEB ON MARYLAND HENRY DRAPER CATALOGUE TAPE. IN VOL. 2 RA AND DECL WILL  
BE GIVEN TO .1 SEC AND 1 ARCSEC RESPECTIVELY, AS PROVIDED BY THE STRASBOURG STELLAR DATA CENTRE. IN  
VOL. 1, HD COORDINATES TO 0.1 MIN AND 1 ARCMIN WERE GIVEN.

DISTRIBUTORS OF THE DATA SET

NAME  
MR. WILLIAM VALENTE

ADDRESS  
CODE 601  
NATIONAL SPACE SCIENCE DATA CENTER  
GODDARD SPACE FLIGHT CENTER  
GREENBELT, MD. 20771

CONDITIONS AND COMMENTS  
SUPPLY BLANK MAGNETIC TAPE

NANCY HOUK

CENTRE DE DONNEES STELLAIRES  
DEPT. OF ASTRONOMY 1045 DENNISON BLDG  
UNIVERSITY OF MICHIGAN  
ANN ARBOR, MI. 48109

PRINTED CATALOGUE AVAILABLE

DR. C. JASCHEK

CENTRE DE DONNEES STELLAIRES  
OBSERVATOIRE DE STRASBOURG  
11, RUE DE L'UNIVERSITE  
67000 STRASBOURG  
FRANCE

PROBABLE CHARGE

★ ★ ★ ★ ★ ★ ★  
★ 174 ★  
★ ★ ★ ★ ★ ★ ★

DR. J.P. SWINGS  
INSTITUT D'ASTROPHYSIQUE  
B-4200 COINTE-ONGREE  
BELGIUM

TELEPHONE: (041) 529-980

```
*****
*                                     *
* DATA FILE 174A ***** SPECTRA OF B(E) STARS WITH IR EXCESSES *****
```

N/A ENTRIES  
60 OBJECTS

100% COMPLETE  
N/A% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
DATES OF OBSERVATION: 1940 TO 1975

OBJECT CLASSES  
-----  
VV CEPHEI STARS  
SYMBIOTIC STARS  
SHELL STARS  
PLANETARY NEBULAE  
INFRARED SOURCES  
EMISSION STARS  
EARLY-TYPE STARS  
BE STARS  
BP STARS

DATA CATEGORIES  
-----  
SPECTROSCOPY  
PHOTOMETRY  
OPTICAL ASTRONOMY  
INFRARED ASTRONOMY

DATA ITEMS APPEARING IN THE FILE		APPROX. X WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	
<hr/>			
POSITIONAL DATA			
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)	100	1950
IDENTIFICATION			
RUNNING NO. IN SOURCE CATALOGUE			
HD CATALOGUE NUMBER			
DM CATALOGUE NUMBER		5	
NGC, IC CATALOGUE NUMBER			
HD CATALOGUE NUMBER		15	
RADIATION			
MAGNITUDES, VISUAL	TRANSCR (REMARKS)	100	
MAGNITUDES, OTHER	TRANSCR	100	INFRARED K AND H-K
EMISSION/ABSORPTION LINES	ORIGINAL	100	
COLORS	ORIGINAL	100	
DERIVED QUANTITIES			
TEMPERATURE		10	
VARIABLE STARS			
TYPE OF VARIABILITY		10	
RANGE OF COVERAGE			
RIGHT ASCENSION:	0 TO 24 HOURS		GALACTIC LATITUDE:
DECLINATION:	-70 TO +70 DEGREES		GALACTIC LONGITUDE:
SPECTRAL TYPES:	PECULIAR BE'S		MAGNITUDES:
OTHER:	YOUNG PLANETARY NEB.		DISTANCE:
			4.0 TO 17.0

KEY REFERENCE(S)  
SPECTRA OF PECULIAR BE STARS WITH INFRARED EXCESSES

### DESCRIPTION OF MACHINE-READABLE DATA FORMS

REMARKS MAGNITUDES FROM VARIOUS CATALOGUES (HD, MWC, OWN PHOTOMETRY)

DISTRIBUTORS OF THE DATA SET		
NAME-----	ADDRESS-----	CONDITIONS AND COMMENTS
DR. J.P. SWINGS	INSTITUT D'ASTROPHYSIQUE B-4200 COINTE-OUGREE BELGIUM	

\*\*\*\*\*  
 \* 175 \*  
 \*\*\*\*\*

DR. HARDING E. SMITH  
 PHYSICS DEPARTMENT C-011  
 UNIVERSITY OF CALIFORNIA, SAN DIEGO  
 LA JOLLA, CA  
 92093

TELEPHONE: (714) 452-4558

\*\*\*\*\*  
 \* DATA FILE 175A \*\*\*\*\* UCSD QSO CATALOG \*\*\*\*\*  
 \*\*\*\*\*

16 ENTRIES  
 800 OBJECTS

N/A% COMPLETE  
 100% MACHINE-READABLE

PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 DATES OF OBSERVATION:

OBJECT CLASSES

QUASARS

DATA CATEGORIES

SPECTROPHOTOMETRY  
 REDSHIFTS  
 RADIO ASTRONOMY  
 POLARIMETRY  
 PHOTOMETRY  
 OPTICAL ASTRONOMY  
 CROSS INDEX  
 ASTROMETRY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA RIGHT ASCENSION, DECLINATION	TRANSCR		100	1950
IDENTIFICATION OTHER IDENTIFICATION NUMBERS			100	COORDINATE DESIGNATION ALSO RADIO OR OPTICAL SURVEY
RADIATION COLORS	TRANSCR		50	
PHOTOMETRIC SYSTEM(S)	TRANSCR		100	
EMISSION/ABSORPTION LINES	TRANSCR		100	
POLARIZATION				
VARIABLE STARS OTHER (SEE COMMENTS)	TRANSCR		20	EXISTENCE OF VARIABILITY IS NOTED
OTHER OTHER (SEE COMMENTS)	TRANSCR		100	

RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE: -90 TO +90 DEGREES  
 GALACTIC LONGITUDE: 0 TO 360 DEGREES  
 MAGNITUDES:  
 DISTANCE:

FORM(S) OF COMPILATION: 6000 PUNCHED CARDS  
 DIGITAL MAGNETIC TAPES=1

KEY REFERENCE(S)

BURBIDGE, G.R., CROWNE, A.H. AND SMITH, H.E. "AN OPTICAL CATALOGUE OF QUASI-STELLAR OBJECTS" AP.J. SUPPL. 33, 113, 1977.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

AVAILABLE ON 9 TRACK TAPE (BCD) OR PUNCHED CARDS.

REMARKS

NONE GIVEN

DISTRIBUTORS OF THE DATA SET

NAME  
 DR. HARDING E. SMITH

ADDRESS  
 PHYSICS DEPARTMENT, C-011  
 UNIVERSITY OF CALIFORNIA, SAN DIEGO  
 LA JOLLA, CA. 92093

CONDITIONS AND COMMENTS  
 REQUESTER WILL BE CHARGED FOR COST OF  
 GENERATING A COPY OF THE DATA SET.

\*\*\*\*\*  
 \* 176 \*  
 \*\*\*\*\*

MRS. JANET AKYUZ MATTEI      TELEPHONE: (617) 354-0484  
 AMERICAN ASSOCIATION OF VARIABLE  
 STAR OBSERVERS  
 187 CONCORD AVENUE  
 CAMBRIDGE, MA  
 02138

\*\*\*\*\*

\* DATA FILE 176A \* \*\*\*\*\* VARIABLE STAR OBSERVATIONS \*\*\*\*\*

\*\*\*\*\* 2030000 ENTRIES      25% COMPLETE      PRIMARY SEQUENCE OF ORDERING: NO NUMBER (1900)  
 2000 OBJECTS      100% MACHINE-READABLE      DATES OF OBSERVATION: 1960 TO 1978

## OBJECT CLASSES

VARIABLES  
 U GEMINORUM STARS  
 T TAURI STARS  
 SYMBIOTIC STARS  
 SUPERNOVAE  
 RW AURIGAE STARS  
 RV TAURI STARS  
 R CRB VARIABLES  
 NOVAE  
 MIRA VARIABLES  
 ECLIPSING VARIABLES  
 CEPHEIDS

## DATA CATEGORIES

PHOTOMETRY  
 OPTICAL ASTRONOMY

DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
POSITIONAL DATA OTHER (SEE COMMENTS)	TRANSCR			HARVARD DESIGNATION, EPOCH:1900
IDENTIFICATION CHARTS AVAILABLE OTHER (SEE COMMENTS)	ORIGINAL TRANSCR			CHARTS AVAILABLE FROM AAVSO HARVARD DESIGNATION, VARIABLE NAME
RADIATION MAGNITUDES, PHOTOELECTRIC MAGNITUDES, VISUAL	ORIGINAL ORIGINAL			VERY FEW IN THE V
VARIABLE STARS INDIVIDUAL OBSERVATIONS TYPE OF VARIABILITY OTHER (SEE COMMENTS) MAXIMUM AND MINIMUM MAGNITUDES PERIOD OF VARIABILITY	ORIGINAL TRANSCR ORIGINAL TRANSCR			RAW, AVG, PRD DATA AVAILABLE GCVS COMPUTER GENERATED OR HANDPLOTTED LIGHT CURVES GCVS GCVS

RANGE OF COVERAGE  
 RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -90 TO +90 DEGREES  
 SPECTRAL TYPES: MOSTLY LATE TYPE  
 OTHER:

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES: 1.0 TO 17.0 (VISUAL)  
 DISTANCE:

FORM(S) OF COMPILATION: HANDPLOTTED LIGHT CURVES.  
 COPIES OF COMPUTER GENERATED LIGHT CURVE  
 2 MILLION PUNCHED COMPUTER CARDS  
 10 DIGITAL MAGNETIC TAPES  
 3 BOUND BOOKS OR JOURNALS

KEY REFERENCE(S)  
 AAVSO QUARTERLY REPORTS, NO:1-27, AAVSO REPORTS, NO:28-30

DESCRIPTION OF MACHINE-READABLE DATA FORMS  
 DATA ON VARIABLE STARS ARE STORED ON PUNCHED CARDS. EACH DATA CARD CONTAINS; THE HARVARD DESIGNATION, THE STAR NAME, JULIAN DATE OBSERVATION, AND THE OBSERVER. THE DATA ARE ALSO ON MAGNETIC TAPE, CREATED BY CDC 6400, ON 7 TRACKS(556BP1), USING UPDATE PROGRAM.

REMARKS  
 HARVARD DESIGNATION: FIRST FOUR FIGURES INDICATE THE HOUR AND THE MINUTE OF RIGHT ASCENSION, THE LAST TWO FIGURES STAND FOR THE DEGREE OF DECLINATION. GCVS: GENERAL CATALOG OF VARIABLE STARS (THIRD EDITION) AND ITS THREE SUPPLEMENTS HAVE BEEN THE MAJOR SOURCE OF REFERENCE. AAVSO DATA SINCE 1960 ARE MACHINE READABLE. EARLIER DATA ON VARIABLE STARS, GOING BACK TO 1911 EXIST IN THE FORM OF RAW DATA AND LIGHT CURVES AND ARE OBTAINABLE FROM AAVSO. ALSO COPIES OF COMPUTER GENERATED OR HANDPLOTTED LIGHT CURVES.

## DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
MRS. JANET AKYUZ MATTEI	AAVSO 187 CONCORD AVE. CAMBRIDGE, MA. 02138	REQUESTER PAYS FOR STAFF TIME, MAGNETIC TAPE AND COMPUTER TIME USED FOR THE COMPILATION OF DATA.

\*\*\*\*\*  
 \* 177 \*  
 \*\*\*\*\*

DR. JAMES B. KALER  
 UNIVERSITY OF ILLINOIS  
 OBSERVATORY  
 URBANA, IL  
 61801

TELEPHONE: (217) 333-3090

\*\*\*\*\*

\* DATA FILE 177A \*\*\*\*\* EMISSION-LINE CAT. PLANETARY AND DIFFUSE NEBULAE \*\*\*\*\*

\*\*\*\*\* 2000000 ENTRIES 99% COMPLETE PRIMARY SEQUENCE OF ORDERING:  
 600 OBJECTS 99% MACHINE-READABLE DATES OF OBSERVATION: 1935 TO 1975

OBJECT CLASSES

PLANETARY NEBULAE  
 H II REGIONS  
 HERBIG-HARO OBJECTS  
 EMISSION NEBULAE

DATA CATEGORIES

ULTRAVIOLET ASTRONOMY  
 SPECTROPHOTOMETRY  
 PHOTOMETRY  
 OPTICAL ASTRONOMY  
 INFRARED ASTRONOMY

DATA ITEMS APPEARING IN THE FILE	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
ITEM				
POSITIONAL DATA				
RIGHT ASCENSION, DECLINATION	TRANSCR (REMARKS)			1950
GALACTIC COORDINATES	TRANSCR			SYSTEM II
IDENTIFICATION				
NGC, IC CATALOGUE NUMBER				
OTHER IDENTIFICATION NUMBERS				
RADIATION				
EMISSION/ABSORPTION LINES	TRANSCR (REMARKS) REDUCED	100		RELATIVE LINE INTENSITIES
RANGE OF COVERAGE				
RIGHT ASCENSION:	0 TO 24 HOURS			GALACTIC LATITUDE: -90 TO +90 DEGREES
DECLINATION:	-90 TO +90 DEGREES			GALACTIC LONGITUDE: 0 TO 360 DEGREES
SPECTRAL TYPES:				MAGNITUDES:
OTHER:				DISTANCE:

FORM(S) OF COMPILATION: 1 BOUND BOOKS OR JOURNALS

KEY REFERENCE(S)

ASTROPHYSICAL JOURNAL SUPPLEMENT, VOL 31, 517, 1976

DESCRIPTION OF MACHINE-READABLE DATA FORMS

REMARKS

OBJECT NAMES SAME AS PEREK-KOHOUTEK CATALOG OF PLANETARY NEBULAE.

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
J.B. KALER	UNIVERSITY OF ILLINOIS OBSERVATORY URBANA, IL 61801	

\*\*\*\*\*  
 \* 178 \*  
 \*\*\*\*\*

DR. ROBERT W. HOBBS  
 CODE 685  
 GODDARD SPACE FLIGHT CENTER  
 GREENBELT, MD.  
 20771

TELEPHONE: (301) 982-2591

\*\*\*\*\*  
 \* DATA FILE 179A \*\*\*\*\* 90-GHZ VARIABLE RADIO SOURCE MONITORING \*\*\*\*\*  
 \*\*\*\*\*

N/A ENTRIES N/A COMPLETE PRIMARY SEQUENCE OF ORDERING:  
 11 OBJECTS N/A MACHINE-READABLE DATES OF OBSERVATION: 1970 TO 1978

## OBJECT CLASSES

RADIO SOURCES

## DATA CATEGORIES

RADIO ASTRONOMY

## DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
IDENTIFICATION				
OTHER IDENTIFICATION NUMBERS				
OTHER (SEE COMMENTS)				FLUX DENSITY

## RANGE OF COVERAGE

RIGHT ASCENSION: 0 TO 24 HOURS  
 DECLINATION: -30 TO +70 DEGREES  
 SPECTRAL TYPES:  
 OTHER:

GALACTIC LATITUDE:  
 GALACTIC LONGITUDE:  
 MAGNITUDES:  
 DISTANCE:

FORM(S) OF COMPILATION: TYPED TABLES

## KEY REFERENCE(S)

ASTRONOMICAL JOURNAL VOL82,P.257,1977

DESCRIPTION OF MACHINE-READABLE DATA FORMS

## REMARKS

NONE GIVEN

## DISTRIBUTORS OF THE DATA SET

NAME-----  
 R.W. HOBBS

-----ADDRESS-----  
 CODE 685  
 GODDARD SPACE FLIGHT CENTER  
 GREENBELT, MD 20771

-----CONDITIONS AND COMMENTS



\*\*\*\*\*  
 \* 179 \*  
 \*\*\*\*\*

MR. GEOFFREY G. DOUGLASS  
 U.S. NAVAL OBSERVATORY  
 34TH AND MASSACHUSETTS AVE N.W.  
 WASHINGTON, D.C.  
 20390

TELEPHONE: (202) 254-4615

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\* DATA FILE 179A \*\*\*\*\* PHOTOELECTRIC CATALOG-U,B,V AND UC,B,V SYSTEMS \*\*\*\*\*

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 58000 ENTRIES 100% COMPLETE PRIMARY SEQUENCE OF ORDERING: RIGHT ASCENSION (1950)  
 20705 OBJECTS 100% MACHINE-READABLE DATES OF OBSERVATION: 1950 TO 1966

OBJECT CLASSES

DATA CATEGORIES

PHOTOMETRY

DATA ITEMS APPEARING IN THE FILE

ITEM	TYPE (AND MAJOR SOURCE)	NATURE OF DATA	APPROX. % WITH THIS GIVEN	COMMENTS AND OTHER INFORMATION
<b>POSITIONAL DATA</b>				
RIGHT ASCENSION, DECLINATION GALACTIC COORDINATES	TRANSCR (REMARKS)	REDUCED	100 100	1900 SYSTEM II
<b>IDENTIFICATION</b>				
RUNNING NO. IN SOURCE CATALOGUE			10	
HD CATALOGUE NUMBER			75	FROM SOURCE CATALOGUE
HD CATALOGUE NUMBER			5	BD, COD, CPD
OTHER IDENTIFICATION NUMBERS			10	FROM SOURCE CATALOGUE
REMARKS			07	
<b>RADIATION</b>				
SPECTRAL CLASS	TRANSCR (REMARKS)	REDUCED	75	SOURCE PUBLICATION
COLORS	TRANSCR (REMARKS)	REDUCED	75	SOURCE PUBLICATION
MAGNITUDES, PHOTOELECTRIC	TRANSCR (REMARKS)	REDUCED	99	SOURCE PUBLICATION
LUMINOSITY CLASS	TRANSCR (REMARKS)	REDUCED	50	SOURCE PUBLICATION.
<b>MULTIPLE SYSTEMS</b>				
MULTIPLICITY OF SYSTEM	ORIGINAL (REMARKS)		5	FROM IDS CATALOG.
SEPARATION (VISUAL BINARIES)	ORIGINAL (REMARKS)		5	FROM IDS CATALOGUE.
<b>OTHER</b>				
OTHER (SEE COMMENTS)	TRANSCR (REMARKS)		100	REFERENCES TO SOURCE PUBLICATION.
<b>RANGE OF COVERAGE</b>				
RIGHT ASCENSION:	00 TO 24 HOURS			GALACTIC LATITUDE: -90 TO +90 DEGREES
DECLINATION:	-90 TO +90 DEGREES			GALACTIC LONGITUDE: 0 TO 360 DEGREES
SPECTRAL TYPES:				MAGNITUDES: 0 TO 13
OTHER:				DISTANCE:

KEY REFERENCE(S)

PUBLICATIONS OF THE UNITED STATES NAVAL OBSERVATORY SECOND SERIES, VOL. XX1, 1968, WASHINGTON, D.C.  
 V.M. BLANCO, S. DEMERS, G.G. DOUGLASS, M.P. FITZGERALD.

DESCRIPTION OF MACHINE-READABLE DATA FORMS

ONE MAGNETIC TAPE, IBM 360/40 COMPUTER, 9 TRACK, 800 BPI, 3 FILES

REMARKS

COMPILATION OF U,B,V AND UC,B,V PHOTOELECTRIC DATA FROM THE PUBLISHED ASTRONOMICAL LITERATURE. MOST  
 OPEN AND GLOBULAR CLUSTER MEMBERS, AND VARIABLE STARS OMITTED. MAGNETIC TAPE CONTAINS 3 FILES; UB  
 CATALOG, REMARKS, REFERENCES IN SAME FORMAT AS PUBLISHED CATALOG.

DISTRIBUTORS OF THE DATA SET

NAME	ADDRESS	CONDITIONS AND COMMENTS
G. DOUGLASS	NAVAL OBSERVATORY WASHINGTON, D. C. 20390	3 BLANK, 9 TRACK, 1600 BPI TESTED MAG. TAPES (ONE RETURNED)
S. ELVOVE	NAVAL OBSERVATORY WASHINGTON, D. C. 20390	3 BLANK, 9 TRACK, 1600 BPI TESTED MAG.



National Aeronautics and  
Space Administration

**Goddard Space Flight Center**  
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